

#### HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use FOSAMPRENAVIR CALCIUM TABLETS safely and effectively. See full prescribing information for FOSAMPRENAVIR CALCIUM TABLETS. FOSAMPRENAVIR CALCIUM tablets, for oral use

### Initial U.S. Approval: 2003

**RECENT MAJOR CHANGES** -Warnings and Precautions, Risk of Serious Adverse Reactions

#### Due to Drug Interactions (5.1)

INDICATIONS AND USAGE -Fosamprenavir is an HIV protease inhibitor indicated in combination with other antiretroviral agents for the treatment of HIV-1 infection. (1)

#### - DOSAGE AND ADMINISTRATION --

- Therapy-naive Adults: Fosamprenavir 1.400 mg twice daily: fosamprenavir 1.400 mg once daily plus ritonavir 200 mg once daily; fosamprenavir 1,400 mg once daily plus ritonavir 100 mg once daily; fosamprenavir 700 mg twice daily plus ritonavir 100 mg twice daily (2.1)
- Protease Inhibitor-experienced Adults: Fosamprenavir 700 mg twice daily plus ritonavir 100 mg twice daily. (2.1)
- Pediatric Patients (aged at least 4 weeks to 18 years): Dosage should be calculated based on body weight (kg) and should not exceed adult dose. (2.2)
- · Hepatic Impairment: Recommended adjustments for patients with mild, moderate, or severe hepatic impairment. (2.3) Dosing Considerations

- CONTRAINDICATIONS

- · Fosamprenavir calcium tablets may be taken with or without food. (2)
- --- DOSAGE FORMS AND STRENGTHS

#### 700 mg tablets (3)

- Hypersensitivity to fosamprenavir or amprenavir (e.g., Stevens-Johnson syndrome). (4)
- Drugs highly dependent on CYP3A4 for clearance and for which elevated plasma levels may result in serious
- and/or life-threatening events. (4)
- · Review ritonavir contraindications when used in combination. (4)

- The concomitant use of fosamprenavir with ritonavir and certain other drugs may result in known or
  potentially significant drug interactions. Consult the full prescribing information prior to and during treatment for potential drug interactions. (5.1, 7.3)
- Fosamprenavir should be discontinued for severe skin reactions including Stevens-Johnson syndrome. (5.2) Fosamprenavir should be used with caution in patients with a known sulfonamide alleroy. (5.3)

-- WARNINGS AND PRECAUTIONS --

- Use of higher than approved doses may lead to transaminase elevations. Patients with hepatitis B or C are at increased risk of transaminase elevations. (5.4)
- Patients receiving fosamprenavir may develop new onset or exacerbations of diabetes mellitus, hyperglycemia (5.5), immune reconstitution syndrome (5.6), redistribution/accumulation of body fat (5.7), and elevated triglyceride and cholesterol concentrations (5.8). Monitor cholesterol and triglycerides prior to therapy and periodically thereafter.
- Acute hemolytic anemia has been reported with amprenavir. (5.9)
- Hemophilia Spontaneous bleeding may occur, and additional factor VIII may be required. (5.10) Nephrolithiasis: Cases of nephrolithiasis have been reported with fosamprenavir. (5.11)
- ----- ADVERSE REACTIONS ----
- In adults the most common adverse reactions (incidence greater than or equal to 4%) are diarrhea, rash, nausea, vomiting, and headache. (6.1)
- Vomiting and neutropenia were more frequent in pediatrics than in adults. (6.1)
- To report SUSPECTED ADVERSE REACTIONS, contact Mylan Pharmaceuticals Inc. at 1-877-446-3679 (1-877-4-INFO-RX) or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.
- ----- DRUG INTERACTIONS --

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- Coadministration of fosamprenavir with drugs that induce CYP3A4 may decrease amprenavir (active metabolite) concentrations leading to potential loss of virologic activity. (7, 12.3)
- Coadministration with drugs that inhibit CYP3A4 may increase amprenavir concentrations. (7, 12.3)
- Coadministration of fossimprenavir and ritonavir may result in clinically significant interactions with drugs metabolized by CYP2D6. (7)

### See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling.

Revised: 3/2016

MX:FOSM:R4

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#### INDICATIONS AND USAGE

03/2015

Treatment discontinuation due to adverse events occurred in 6.4% of subjects receiving fosamprenavir and in 5.9% of subjects receiving comparator treatments. The most common adverse reactions leading to discontinuation of fosamprenavir (incidence less than or equal to 1% of subjects) included diarrhea, nausea, vomiting, AST increased, ALT increased, and rash.

### 6.1 Clinical Trials

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared with rates in the clinical trials of another drug and may not reflect the rates observed in clinical practice.

Adult Trials: The data for the three active-controlled clinical trials described below reflect exposure of 700 HIV-1-infected subjects to fosamprenavir calcium tablets, including 599 subjects exposed to fosamprenavir for greater than 24 weeks, and 409 subjects exposed for greater than 48 weeks. The population age ranged from 17 to 72 years. Of these subjects, 26% were female, 51% white, 31% black, 16% American Hispanic, and 70% were

The potential for drug interactions with fosamprenavir changes when fosamprenavir is coadministered with the potent CYP3A4 inhibitor itonavir. The magnitude of CYP3A4-mediated drug interactions (effect on amprenavir or effect on coadministered drug) may change when fosamprenavir is coadministered with ritonavir. Because ritonavir is a CYP2D6 inhibitor, clinically significant interactions with drugs metabolized by CYP2D6 are possible when coadministered with fosamprenavir plus ritonavir. There are other agents that may result in serious and/or life-threatening drug interactions [see Contraindications

7.2 Drugs that Should Not Be Coadministered with Fosamprenavi

#### See Contraindications (4).

### 7.3 Established and Other Potentially Significant Drug Interactions

Table 7 provides a listing of established or potentially clinically significant drug interactions. Information in the table applies to fosamprenavir with or without ritonavir, unless otherwise indicated.

| Concomitant Drug Class:<br>Drug Name                                 | Effect on Concentration<br>of Amprenavir or<br>Concomitant Drug<br><i>HCV/HIV-Ar</i>  | Clinical Comment   |
|--|---|--|
| HCV protease inhibitor:<br>Boceprevir                                | Fosamprenavir:<br>↓Amprenavir (predicted)   | Coadministration of fosamprenavir or fosamprenavir/<br>ritonavir and boceprevir is not recommended.  |
|  | ↔ or<br>↓Boceprevir (predicted)   |  |
|  | Fosamprenavir/ritonavir:<br>↓Amprenavir (predicted)<br>↓Boceprevir (predicted)  |  |
| HCV protease inhibitor:<br>Simeprevir                                | Fosamprenavir:<br>↔ Amprenavir (predicted)<br>↑ or  | Coadministration of fosamprenavir or fosamprenavir/<br>ritonavir and simeprevir is not recommended.  |
|  | ↓Simeprevir (predicted)   |  |
|  | Fosamprenavir/ritonavir:<br>↔ Amprenavir (predicted)<br>↑Simeprevir (predicted)   |  |
| HCV protease inhibitor:<br>Paritaprevir (coformulated                | Fosamprenavir:<br>↑ Amprenavir (predicted)  | Appropriate doses of the combinations with respect to<br>safety and efficacy have not been established.  |
| with ritonavir and<br>ombitasvir and<br>coadministered with          | ↑ or<br>↔ Paritaprevir (predicted)  | Fosamprenavir 1,400 mg once daily may be considered  |
| dasabuvir)   | Fosamprenavir/<br>ritonavir: ↑ or<br>↔ Amprenavir (predicted)   | when coadministered with paritaprevir/ritonavir/<br>ombitasvir/dasabuvir.<br>Coadministration of fosamprenavir/ritonavir and<br>paritaprevir/ritonavir/ombitasvir/dasabuvir is not   |
| Non-nucleoside reverse   | ↑Paritaprevir (predicted)<br>Fosamprenavir:   | recommended.<br>Appropriate doses of the combinations with respect to  |
| <b>transcriptase inhibitor:</b><br>Efavirenz <sup>a</sup>            | ↓Amprenavir<br><b>Fosamprenavir/ritonavir:</b><br>↓Amprenavir   | safety and efficacy have not been established.<br>An additional 100 mg/day (300 mg total) of ritonavir<br>is recommended when efavirenz is administered with<br>fosamprenavir/ritonavir once daily. No change in the<br>ritonavir dose is required when efavirenz is administered<br>with fosamprenavir plus ritonavir twice daily.  |
| Non-nucleoside reverse<br>transcriptase inhibitor:                   | Fosamprenavir:<br>↓Amprenavir   | Coadministration of nevirapine and fosamprenavir<br>without ritonavir is not recommended.  |
| Nevirapineª  | ↑Nevirapine<br>Fosamprenavir/ritonavir:<br>↓Amprenavir<br>↑Nevirapine   | No dosage adjustment required when nevirapine is<br>administered with fosamprenavir/ritonavir twice daily.<br>The combination of nevirapine administered with<br>fosamprenavir/ritonavir once-daily regimen has not<br>been studied.   |
| <b>HIV protease inhibitor:</b><br>Atazanavir <sup>a</sup>            | Fosamprenavir:<br>Interaction has not been<br>evaluated.<br>Fosamprenavir/ritonavir:<br>↓Atazanavir   | Appropriate doses of the combinations with respect to<br>safety and efficacy have not been established.  |
| HIV protease inhibitors:   | <ul> <li>↔Amprenavir</li> <li>Fosamprenavir:</li> </ul>   | Appropriate doses of the combinations with respect to  |
| Indinavir <sup>a</sup> , nelfinavir <sup>a</sup>                     | ↑Amprenavir<br>Effect on indinavir and<br>nelfinavir is not well<br>established.<br>Fosamprenavir/ritonavir:<br>Interaction has not been<br>evaluated.  | safety and efficacy have not been established.   |
| <b>HIV protease inhibitors:</b><br>Lopinavir/ritonavir <sup>a</sup>  | ↓Amprenavir<br>↓Lopinavir   | An increased rate of adverse events has been observed.<br>Appropriate doses of the combinations with respect to<br>safety and efficacy have not been established.  |
| HIV protease inhibitor:<br>Saquinavir <sup>a</sup>                   | Fosamprenavir:<br>↓Amprenavir<br>Effect on saquinavir is not<br>well established.<br>Fosamprenavir/ritonavir:<br>Interaction has not been<br>evaluated. | Appropriate doses of the combination with respect to safety and efficacy have not been established.  |
| HIV integrase inhibitor:<br>Raltegravir <sup>a</sup>                 | Fosamprenavir:<br>↓Amprenavir<br>↓Raltegravir<br>Fosamprenavir/ritonavir:<br>↓Amprenavir  | Appropriate doses of the combination with respect to safety and efficacy have not been established.  |
| <b>HIV integrase inhibitor:</b><br>Dolutegravir <sup>a</sup>         | ↓Raltegravir<br>Fosamprenavir/<br>ritonavir:<br>↓Dolutegravir   | The recommended dose of dolutegravir is 50 mg twice<br>daily when coadministered with fosamprenavir/ritonavir.<br>Use an alternative combination where possible in<br>patients with known or suspected integrase inhibitor<br>resistance.  |
| HIV CCR5 co-receptor<br>antagonist:<br>Maraviroc <sup>a</sup>        | Fosamprenavir/ritonavir:<br>↓Amprenavir<br>↑Maraviroc   | No dosage adjustment required for fosamprenavir/<br>ritonavir. The recommended dose of maraviroc<br>is 150 mg twice daily when coadministered with<br>fosamprenavir/ritonavir. Fosamprenavi should be given<br>with ritonavir when coadministered with maraviroc.  |
| Antiarrhythmics:   | Other   | Agents<br>Use with caution. Increased exposure may be associated   |
| Amiodarone, lidocaine<br>(systemic), and quinidine                   | Tranka my annoo   | with life-threatening reactions such as cardiac<br>arrhythmias. Therapeutic concentration monitoring, if<br>available, is recommended for antiarrhythmics.   |
| Anticoagulant:<br>Warfarin   |   | Concentrations of warfarin may be affected. It is recommended that INR (international normalized ratio)  |
| Anticonvulsants:   | Fosamprenavir:  | be monitored.<br>Use with caution. Fosamprenavir may be less effective   |
| Carbamazepine,<br>phenobarbital, phenytoin<br>Phenytoin <sup>a</sup> | ↓Amprenavir<br>Fosamprenavir/ritonavir:<br>↑Amprenavir<br>↓Phenytoin  | due to decreased amprenavir plasma concentrations in<br>patients taking these agents concomitantly.<br>Plasma phenytoin concentrations should be monitored<br>and phenytoin dose should be increased as appropriate.<br>No change in fosamprenavir/ritonavir dose is<br>recommended.   |
| Antidepressant:<br>Paroxetine, trazodone                             | ↓Paroxetine   | Any paroxetine dose adjustment should be guided by<br>clinical effect (tolerability and efficacy).   |
|  | ↑Trazodone  | Adverse events of nausea, dizziness, hypotension, and<br>syncope have been observed following coadministration<br>of trazodone and ritonavir. If trazodone is used<br>with a CYP3A4 inhibitor such as fosamprenavir, the<br>combination should be used with caution and a lower<br>dose of trazodone should be considered.   |
| Antifungals:<br>Ketoconazoleª,                                       | ∱Ketoconazole<br>↑Itraconazole  | dose of trazodone should be considered.<br>Increase monitoring for adverse events.<br>Fosamprenavir: Dose reduction of ketoconazole or   |
| Ketoconazole",<br>itraconazole                                       |   | itraconazole may be needed for patients receiving more<br>than 400 mg ketoconazole or itraconazole per day.<br>Fosamprenavir/ritonavir: High doses of ketoconazole<br>or itraconazole (greater than 200 mg/day) are not  |
| Anti-gout:<br>Colchicine   | †Colchicine   | recommended.<br>Patients with renal or hepatic impairment should not be<br>given colchicine with fosamprenavir/ritonavir.<br>Fosamprenavir/ritonavir and coadministration of<br>colchicine:<br>Treatment of gout flares: 0.6 mg (one tablet) x one<br>dose, followed by 0.3 mg (half tablet) one hour later.<br>Dose to be repeated no earlier than 3 days.<br>Prophylaxis of gout flares: If the original regimen was<br>0.6 mg twice a day, the regimen should be adjusted to<br>0.3 mg once a day. If the original regimen was 0.6 mg<br>once a very other day.<br>Treatment of familial Mediterranean fever (FMF):<br>Maximum daily dose of 0.6 mg (may be given as<br>0.3 mg twice a day).<br>Fosamprenavir and coadministration of colchicine:<br>Treatment of gout flares: 1.2 mg (two tablets) x one   |
|  |   | Area interior of good in the second s |
| Antimycobacterial:<br>Rifabutin <sup>a</sup>                         | †Rifabutin and rifabutin<br>metabolite  | A complete blood ocount should be performed weekly<br>and as clinically indicated to monitor for neutropenia.<br>Fosamprenavir: A dosage reduction of rifabutin by at<br>least half the recommended dose is required.<br>Fosamprenavir/ritonavir: Dosage reduction of rifabutin<br>by at least 75% of the usual dose of 300 mg/day is<br>recommended (a maximum dose of 150 mg every other<br>day or 3 times per week).  |
| Antipsychotics:<br>Quetiapine  | Fosamprenavir/<br>ritonavir:<br>↑ Quetiapine  | Initiation of fosamprenavir with ritonavir in patients<br>taking quetiapine:<br>Consider alternative antiretroviral therapy to avoid<br>increases in quetiapine drug exposures. If coadministra-<br>tion is necessary, reduce the quetiapine dose to 1/6 of<br>the current dose and monitor for quetiapine essociated<br>adverse reactions. Refer to the quetiapine prescribing<br>information for recommendations on adverse reaction<br>monitoring.<br>Initiation of quetiapine in patients taking fosamprenavir<br>with ritonavir:<br>Refer to the quetiapine prescribing information for initial   |

|   | Fosamprenavir/ritonavir:<br>↓Ethinyl estradiol                               | Increased risk of transaminase elevations. No data<br>are available on the use of fosamprenavir/ritonavir<br>with other hormonal therapies, such as hormone<br>replacement therapy (HRT) for postmenopausal women.  |
|---|--|---|
| PDES inhibitors:<br>Sildenafil,<br>vardenafil   | † Sildenafil<br>† Tadalafil<br>† Vardenafil                                  | <ul> <li>May result in an increase in PDE5 inhibitor-associated adverse events, including hypotension, syncope, visual disturbances, and priapism.</li> <li>Use of PDE5 inhibitors for pulmonary arterial hypertension (PAH):</li> <li>Use of sildenafil (REVATIO) is contraindicated when used for the treatment of PAH <i>[see Contraindications (4)]</i>.</li> <li>The following dose adjustments are recommended for use of tadalafil (ADCIRCA®) with fosamprenavir.</li> <li>Coadministration of ADCIRCA in patients on fosamprenavir.</li> <li>In patients receiving fosamprenavir for at least one week, start ADCIRCA at 20 mg once daily. Increase to 40 mg once daily based upon individual tolerability.</li> <li>Coadministration of fosamprenavir in patients on ADCIRCA.</li> <li>Avoid use of ADCIRCA during the initiation of fosamprenavir. After at least one week following the initiation of fosamprenavir. Fesume ADCIRCA at 20 mg once daily. Increase to 40 mg once daily based upon individual tolerability.</li> <li>Coadministration of fosamprenavir for at least one week following the initiation of fosamprenavir. Stop ADCIRCA at least 24 hours prior to starting fosamprenavir. After at least one week following the initiation of fosamprenavir.</li> <li>Sildenafil: 25 mg every 48 hours.</li> <li>Tadalafil: no more than 10 mg every 72 hours.</li> <li>Vardenafil: no more than 2.5 mg every 72 hours.</li> <li>Vardenafil: no more than 2.5 mg every 72 hours.</li> <li>Vardenafil: no more than 2.5 mg every 72 hours.</li> </ul> |
| <b>Proton pump inhibitors:</b><br>Esomeprazole <sup>a</sup> ,<br>lansoprazole, omeprazole,<br>pantoprazole, rabeprazole | Fosamprenavir:<br>↔ Amprenavir<br>↑ Esomeprazole<br>Fosamprenavir/ritonavir: | Proton pump inhibitors can be administered at the same<br>time as a dose of fosamprenavir with no change in<br>plasma amprenavir concentrations.  |
|   | ↔Amprenavir<br>↔Esomeprazole   |   |
| Tricyclic antidepressants:  | ↑ Tricyclics   | Therapeutic concentration monitoring is recommended   |

Data suggest that the interaction is not clinically

May lead to loss of virologic response.<sup>a</sup>

elevant; however, patients should be monitored for piate withdrawal symptoms.

Alternative methods of non-hormonal contraception are

Amitriptyline, imipramine for tricyclic antidepressants.

<sup>a</sup> See Clinical Pharmacology (12.3) Tables 10, 11, 12, or 13 for magnitude of interaction

#### 8 USE IN SPECIFIC POPULATIONS 8.1 Pregnancy

Narcotic analgesic:

Oral contraceptives

Ethinyl estradiol/

norethindrone

ethadone

Methadone

Fosamprenavir:

↓Ethinyl estradiol

↓Amprenavir

Teratogenic Effects: Pregnancy Category C: Embryo/letal development studies were conducted in rats (dosed from Day 6 to Day 17 of gestation) and rabbits (dosed from Day 7 to Day 20 of gestation). Administration of fosamprenavir to pregnant rats and rabbits produced no major effects on embryo-fetal development; however, the incidence of abortion was increased in rabbits that were administered fosamprenavir. Systemic exposures  $M_{\rm el}({\rm AUG}_{0,24})$  to amprenavir at these dosages were 0.6 (rabbits) to 2 (rats) times the exposures in humans following administration of the maximum recommended human dose (MRHD) of fosamprenavir alone or 0.3 (rabbits) to 2 (rats) times the exposures in humans following administration of the MRHD of fosamprenavir in combination with ritonavir. In contrast, administration of amprenavir was associated with abortions and an increased incidence of minor skeletal variations resulting from deficient ossification of the femur, humerus, and trochlea, in pregnant The mating and fertility of the  $F_1$  generation born to female rats given fosamprenavir was not different from control animals; however, fosamprenavir did cause a reduction in both pup survival and body weights. Surviving For the matrix of the second second

those seen in humans following administration of the MRHD of fosamprenavir in combination with ritonavir There are no adequate and well-controlled studies in pregnant women. Fosamprenavir should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

Antiretroviral Pregnancy Registry: To monitor maternal-fetal outcomes of pregnant women exposed to fosamprenavir, an Antiretroviral Pregnancy Registry has been established. Physicians are encouraged to register patients by calling 1-800-258-4263.

#### 8.3 Nursing Mothers

The Centers for Disease Control and Prevention recommend that HIV-1-infected mothers not breastfeed their infants to avoid risking postnatal transmission of HIV-1 infection. Although it is not known if amprenavir is excreted in human milk, amprenavir is secreted into the milk of lactating rats. Because of both the potential for HIV-1 transmission and the potential for serious adverse reactions in nursing infants, mothers should be instructed not to breastfeed if they are receiving fosamprenavir.

### 8.4 Pediatric Use

The safety, pharmacokinetic profile, virologic, and immunologic responses of fosamprenavir with and without ritonavir were evaluated in protease inhibitor-naive and -experienced HIV-1-infected pediatric subjects aged at least 4 weeks to younger than 18 years and weighing at least 3 kg in three open-label trials *[see Adverse Reactions (6.1), Clinical Pharmacology (12.3), Clinical Studies (14.3)].* 

Treatment with fosamprenavir is not recommended in protease inhibitor-experienced pediatric patients younger than 6 months. The pharmacokinetics, safety, tolerability, and efficacy of fosamprenavir in pediatric patients younger than 4 weeks have not been established *[see Clinical Pharmacology (12.3)]*. Available pharmacokinetic and clinical data do not support once-daily dosing of fosamprenavir alone or in combination with ritonavir for any pediatrics or twice-daily dosing without ritonavir in pediatric patients younger than 2 years [see Clinical Pharmacology (12.3), Clinical Studies (14.3)]. See Dosage and Administration (2.2) for dosing recommendations for pediatric patients.

#### 8.5 Geriatric Use

Clinical studies of fosamprenavir did not include sufficient numbers of patients aged 65 and over to determine whether they respond differently from younger adults. In general, dose selection for an elderly patient should be cautious, reflecting the greater frequency of decreased hepatic, renal, or cardiac function and of conce disease or other drug therapy.

8.6 Hepatic Impairment

### 2 DOSAGE AND ADMINISTRATION

### Therapy-naive Adults:

## Fosamprenavir 700 mg twice daily plus ritonavir 100 mg twice daily.

2.2 Pediatric Patients (Aged at Least 4 Weeks to 18 Years)

# The recommended dosage of fosamprenavir in patients aged at least 4 weeks to 18 years should be calculated based on body weight (kg) and should not exceed the recommended adult dose (Table 1).

# Table 1. Twice-daily Dosage Regimens by Weight for Protease Inhibitor-naive Pediatric Patients (Aged 4 Weeks and Older) and for Protease Inhibitor-experienced Pediatric Patients (Aged 6 Months and

|        | Older) Using Fosamprenavir Calcium Oral Suspension with Concurrent Ritonavir |  |  |  |
|--------|--|--|--|--|
| Weight |  | Twice-daily Dosage Regimen                                 |  |  |
|        | < 11 kg  | Fosamprenavir 45 mg/kg plus ritonavir 7 mg/kgª             |  |  |
|        | 11 kg to < 15 kg   | Fosamprenavir 30 mg/kg plus ritonavir 3 mg/kg <sup>a</sup> |  |  |
|        | 15 kg to < 20 kg   | Fosamprenavir 23 mg/kg plus ritonavir 3 mg/kgª             |  |  |

| 6.1 Clinical Trials   | 17 PATIENT COUNSELING INFORMATION<br>*Sections or subsections omitted from the full prescribing information are not listed.  |
|---|--|
| 6.2 Postmarketing Experience  |  |
| FULL PRESCRIBING INFORMATION           1         INDICATIONS AND USAGE           Fosamprenavir calcium tablets are indicated in combination with other antiretroviral agents for the treatment of human immunodeficiency virus (HIV-1) infection.           The following points should be considered when initiating therapy with fosamprenavir calcium tablets plus ritonavir in protease inhibitor-experienced patients:   | <ul> <li>5.7 Fat Redistribution</li> <li>Redistribution/accumulation of body fat, including central obesity, dorsocervical fat enlargement (buffalo hump), peripheral wasting, facial wasting, breast enlargement, and "cushingoid appearance," have been observed in patients receiving antiretroviral therapy, including fosamprenavir. The mechanism and long-term consequences of these events are currently unknown. A causal relationship has not been established.</li> <li>5.8 Lipid Elevations</li> </ul> |
| <ul> <li>The protease inhibitor-experienced patient trial was not large enough to reach a definitive conclusion that fosamprenavir plus ritonavir and lopinavir plus ritonavir are clinically equivalent [see Clinical Studies (14.2)].</li> <li>Once-daily administration of fosamprenavir plus ritonavir is not recommended for adult protease inhibitor-experienced patients or any pediatric patients [see Dosage and Administration (2.1, 2.2), Clinical Studies (14.2)].</li> </ul> | Treatment with fosamprenavir plus ritonavir has resulted in increases in the concentration of triglycerides and cholesterol <i>[see Adverse Reactions (6)]</i> . Triglyceride and cholesterol testing should be performed prior to initiating therapy with fosamprenavir and at periodic intervals during therapy. Lipid disorders should be managed as clinically appropriate <i>[see Drug Interactions (7)]</i> .<br><b>5.9 Hemolytic Anemia</b>   |
| <ul> <li>Dosing of fosamprenavir plus ritonavir is not recommended for protease inhibitor-experienced pediatric patients younger than 6 months [see Clinical Pharmacology (12.3)].</li> </ul>   | Acute hemolytic anemia has been reported in a patient treated with amprenavir.<br>5.10 Patients with Hemophilia  |
| 2 DOSAGE AND ADMINISTRATION<br>Fosamprenavir calcium tablets may be taken with or without food.<br>Higher-than-approved dose combinations of fosamprenavir plus ritonavir are not recommended due to an<br>increased risk of transaminase elevations <i>[see Overdosaae (10)]</i> .   | There have been reports of spontaneous bleeding in patients with hemophilia A and B treated with protease<br>inhibitors. In some patients, additional factor VIII was required. In many of the reported cases, treatment with<br>protease inhibitors was continued or restarted. A causal relationship between protease inhibitor therapy and these<br>episodes has not been established.  |
| When fosamprenavir is used in combination with ritonavir, prescribers should consult the full prescribing information for ritonavir.<br>2.1 Adults  | 5.11 Nephrolithiasis<br>Cases of nephrolithiasis were reported during postmarketing surveillance in HIV-1-infected patients receiving<br>fosamprenavir. Because these events were reported voluntarily during clinical practice, estimates of frequency<br>cannot be made. If signs or symptoms of nephrolithiasis occur, temporary interruption or discontinuation of   |
| Therapy-naive Adults: <ul> <li>Fosamprenavir 1,400 mg twice daily (without ritonavir).</li> </ul>   | therapy may be considered.   |
| <ul> <li>Fosamprenavir 1,400 mg once daily plus ritonavir 200 mg once daily.</li> <li>Fosamprenavir 1,400 mg once daily plus ritonavir 100 mg once daily.</li> <li>o Dosing of fosamprenavir 1,400 mg once daily plus ritonavir 100 mg once daily is supported by pharma-cokinetic data [see Clinical Pharmacology (12.3)].</li> </ul>  | 5.12 Resistance/Cross-resistance<br>Because the potential for HIV cross-resistance among protease inhibitors has not been fully explored, it is<br>unknown what effect therapy with fosamprenavir will have on the activity of subsequently administered protease<br>inhibitors. Fosamprenavir has been studied in patients who have experienced treatment failure with protease<br>inhibitors [see Clinical Studies (14.2)].  |
| <ul> <li>Fosamprenavir 700 mg twice daily plus ritonavir 100 mg twice daily.</li> <li>Dosing of fosamprenavir 700 mg twice daily plus 100 mg ritonavir twice daily is supported by pharma-cokinetic and safety data [see Clinical Pharmacology (12.3)].</li> </ul>  | <ul> <li>6 ADVERSE REACTIONS</li> <li>• Severe or life-threatening skin reactions have been reported with the use of fosamprenavir [see Warnings and Precautions (5.2)].</li> </ul>  |
| Protease Inhibitor-experienced Adults:<br>• Fosamprenavir 700 mg twice daily plus ritonavir 100 mg twice daily.   | <ul> <li>The most common moderate to severe adverse reactions in clinical trials of fosamprenavir were diarrhea, rash,<br/>nausea, vomiting, and headache.</li> <li>Treatment dispectively due to adverse events accurate in 6.4% of publicity reacting foramprenavir.</li> </ul>  |

#### Fosamprenavir 18 mg/kg plus ritonavir 3 mg/kgª ≥ 20 kg When dosing with ritonavir, do not exceed the adult dose of fosamprenavir 700 mg/ritonavir 100 mg twice-daily dose.

Alternatively, protease inhibitor-naive children aged 2 years and older can be administered fosamprenavir (without

ritonavir) 30 mg per kg twice daily. Fosamprenavir should only be administered to infants born at 38 weeks gestation or greater and who have attained a post-natal age of 28 days.

### For pediatric patients, pharmacokinetic and clinical data:

do not support once-daily dosing of fosamprenavir alone or in combination with ritonavir [see Clinical Studies (14.3)].

do not support administration of fosamprenavir alone or in combination with ritonavir for protease inhibitor-experienced children younger than 6 months [see Clinical Pharmacology (12.3)].

 do not support twice-daily dosing of fosamprenavir without ritonavir in pediatric patients younger than 2 years [see Clinical Pharmacology (12.3)].

### Other Dosing Considerations:

When administered without ritonavir, the adult regimen of fosamprenavir calcium tablets 1,400 mg twice daily may be used for pediatric patients weighing at least 47 kg. When administered in combination with ritonavir, fosamprenavir calcium tablets may be used for pediatric patients weighing at least 39 kg; ritonavir capsules may be used for pediatric patients weighing at least 33 kg.

2.3 Patients with Hepatic Impairment

### See Clinical Pharmacology (12.3).

Mild Hepatic Impairment (Child-Pugh Score Ranging from 5 to 6): Fosamprenavir should be used with caution at a reduced dosage of 700 mg twice daily without ritonavir (therapy-naive) or 700 mg twice daily plus ritonavir 100 mg once daily (therapy-naive or protease inhibitor-experienced).

Moderate Hepatic Impairment (Child-Pugh Score Ranging from 7 to 9): Fosamprenavir should be used with caution at a reduced dosage of 700 mg twice daily without ritonavir (therapy-naive), or 450 mg twice daily plus ritonavir 100 mg once daily (therapy-naive or protease inhibitor-experienced).

Severe Hepatic Impairment (Child-Pugh Score Ranging from 10 to 15): Fosamprenavir should be used with caution at a reduced dosage of 350 mg twice daily without ritonavir (therapy-naive) or 300 mg twice daily plus ritonavir 100 mg once daily (therapy-naive or protease inhibitor-experienced).

There are no data to support dosing recommendations for pediatric patients with hepatic impairment.

### 3 DOSAGE FORMS AND STRENGTHS

Fosamprenavir Calcium Tablets are available containing 700 mg of fosamprenavir as fosamprenavir calcium. The 700 mg tablets are pink, film-coated, modified capsule shaped, unscored tablets debossed with M on one side of the tablet and FT7 on the other side.

4 CONTRAINDICATIONS

Fosamprenavir calcium tablets are contraindicated:

- in patients with previously demonstrated clinically significant hypersensitivity (e.g., Stevens-Johnson syndrome) to any of the components of this product or to amprenavir
- when coadministered with drugs that are highly dependent on cytochrome P450 3A4 (CYP3A4) for clearance and for which elevated plasma concentrations are associated with serious and/or life-threatening events (Table when coadmi

# Table 2. Drugs Contraindicated with Fosamprenavir (Information in the table applies to fosamprenavir with or without ritonavir, unless otherwise indicated.)

| Drug Class/Drug Name   | Clinical Comment   |  |  |
|--|--|--|--|
| Alpha 1-adrenoreceptor antagonist:<br>Alfuzosin  | Potentially increased alfuzosin concentrations can result in hypotension   |  |  |
| Antiarrhythmics:<br>Flecainide, propafenone  | <b>POTENTIAL</b> for serious and/or life-threatening reactions such as cardiac arrhythmias secondary to increases in plasma concentrations of antiarrhythmics if fosamprenavir is co-prescribed with <b>ritonavi</b> r.                            |  |  |
| Antimycobacterials:<br>Rifampin <sup>a</sup>   | May lead to loss of virologic response and possible resistance to<br>fosamprenavir or to the class of protease inhibitors.   |  |  |
| <b>Ergot derivatives:</b><br>Dihydroergotamine, ergonovine,<br>ergotamine, methylergonovine                        | <b>POTENTIAL</b> for serious and/or life-threatening reactions such as acute ergot toxicity characterized by peripheral vasospasm and ischemia of the extremities and other tissues.   |  |  |
| GI motility agents:<br>Cisapride   | <b>POTENTIAL</b> for serious and/or life-threatening reactions such as cardiac arrhythmias.  |  |  |
| Herbal products:<br>St. John's wort (Hypericum<br>perforatum)  | May lead to loss of virologic response and possible resistance to fosamprenavir or to the class of protease inhibitors.  |  |  |
| HMG co-reductase inhibitors: POTENTIAL for serious reactions such as risk of myopathy in<br>rhabdomyolysis.        |  |  |  |
| Neuroleptic:<br>Pimozide   | POTENTIAL for serious and/or life-threatening reactions such as cardiac arrhythmias.   |  |  |
| Non-nucleoside reverse<br>transcriptase inhibitor:<br>Delavirdine <sup>a</sup>                                     | May lead to loss of virologic response and possible resistance delavirdine.  |  |  |
| <b>PDE5 inhibitor:</b><br>Sildenafil (REVATIO <sup>®</sup> ) (for treatment<br>of pulmonary arterial hypertension) | A safe and effective dose has not been established when used with<br>fosamprenavir. There is increased potential for sildenafil-associated<br>adverse events (which include visual disturbances, hypotension,<br>prolonged erection, and syncope). |  |  |
| Sedative/hypnotics:<br>Midazolam, triazolam  | <b>POTENTIAL</b> for serious and/or life-threatening reactions such as prolonged or increased sedation or respiratory depression.  |  |  |

<sup>a</sup> See Clinical Pharmacology (12.3) Tables 10, 11, 12, or 13 for magnitude of interaction.

 when coadministered with ritonavir in patients receiving the antiarrhythmic agents, flecainide and propafenone If fosamprenavir is coadministered with ritonavir, reference should be made to the full prescribing information for ritonavir for additional contraindications.

### 5 WARNINGS AND PRECAUTIONS

5.1 Risk of Serious Adverse Reactions Due to Drug Interactions

Initiation of fosamprenavir/ritonavir, a CYP3A inhibitor, in patients receiving medications metabolized by CYP3A or initiation of medications metabolized by CYP3A in patients already receiving fosamprenavir/ritonavir, may increase plasma concentrations of medications metabolized by CYP3A. Initiation of medications that inhibit or induce CYP3A may increase or decrease concentrations of fosamprenavir/ritonavir, respectively. These interactions may lead to:

Clinically significant adverse reactions, potentially leading to severe, life-threatening, or fatal events from greater exposures of concomitant medications.

Clinically significant adverse reactions from greater exposures of fosamprenavir/ritonavir.

Loss of therapeutic effect of fosamprenavir/ritonavir and possible development of resistance.

See Table 7 for steps to prevent or manage these possible and known significant drug interactions, including dosing recommendations [see Drug Interactions (7)]. Consider the potential for drug interactions prior to and during fosamprenavi/ritionavir threapy; review concomitant medications during fosamprenavir/ritonavir threapy; and monitor for the adverse reactions associated with the concomitant medications [see Contraindications (4), Drug Interactions (7)].

### 5.2 Skin Reactions

Severe and life-threatening skin reactions, including one case of Stevens-Johnson syndrome among 700 subjects treated with fosamprenavir in clinical trials. Treatment with fosamprenavir should be discontinued for severe or life-threatening rashes and for moderate rashes accompanied by systemic symptoms [see Adverse Reactions of the second seco

#### 5.3 Sulfa Allerov

Fosamprenavir should be used with caution in patients with a known sulfonamide allergy. Fosamprenavir contains a sulfonamide moiety. The potential for cross-sensitivity between drugs in the sulfonamide class and fosamprenavir is unknown. In a clinical trial of fosamprenavir used as the sole protease inhibitor, rash occurred in 2 of 10 subjects (20%) with a history of sulfonamide allergy compared with 42 of 126 subjects (33%) with no history of sulfonamide alleroy. In two clinical trials of fosamprenavir plus low-dose ritonavir, rash occurred in 8 of 50 subjects (16%) with a history of sulfonamide allergy compared with 50 of 412 subjects (12%) with no history

#### 5.4 Hepatic Toxicity

Use of fosamprenair with ritonavir at higher-than-recommended dosages may result in transaminase elevations and should not be used [see Dosage and Administration (2), Overdosage (10)]. Patients with underlying hepatitis B or C or marked elevations in transaminases prior to treatment may be at increased risk for developing or worsening of transaminase elevations. Appropriate laboratory testing should be conducted prior to initiating therapy with fosamprenavir and patients should be monitored closely during treatment.

### 5.5 Diabetes/Hyperglycemia

New onset diabetes mellitus, exacerbation of pre-existing diabetes mellitus, and hyperglycemia have been reported during postmarketing surveillance in HIV-1-infected patients receiving protease inhibitor therapy. Some patients required either initiation or dose adjustments of insulin or oral hypoglycemic agents for treatment of these events. In some cases, diabetic ketoacidosis has occurred. In those patients who discontinued protease inhibitor therapy, hyperglycemia persisted in some cases. Because these events have been reported voluntarily during clinical practice, estimates of frequency cannot be made and causal relationships between protease inhibitor therapy and these events have not been established.

5.6 Immune Reconstitution Syndrome

antiretroviral-naive. Sixty-one percent received fosamprenavir 1,400 mg once daily plus ritonavir 200 mg once daily; 24% received fosamprenavir 1,400 mg twice daily; and 15% received fosamprenavir 700 mg twice daily plus ritonavir 100 mg twice daily.

Selected adverse reactions reported during the clinical efficacy trials of fosamprenavir are shown in Tables 3 and 4. Each table presents adverse reactions of moderate or severe intensity in subjects treated with combina therapy for up to 48 weeks

Table 3. Selected Moderate/Severe Clinical Adverse Reactions Reported in Greater than or Equal to 2% of Antiretroviral-naive Adult Subjects

|  | APV3  | 0001ª                                     | APV30002 <sup>a</sup>  |  |
|--|---|---|--|--|
| Adverse Reaction                           | Fosamprenavir<br>1,400 mg b.i.d.<br>(n = 166) | Nelfinavir<br>1,250 mg b.i.d.<br>(n = 83) | Fosamprenavir<br>1,400 mg q.d./<br>Ritonavir<br>200 mg q.d.<br>(n = 322) | Nelfinavir<br>1,250 mg b.i.d.<br>(n = 327) |
| Gastrointestinal                           |   |   |  |  |
| Diarrhea                                   | 5%  | 18%                                       | 10%  | 18%  |
| Nausea                                     | 7%  | 4%  | 7%   | 5%   |
| Vomiting                                   | 2%  | 4%  | 6%   | 4%   |
| Abdominal pain                             | 1%  | 0%  | 2%   | 2%   |
| Skin                                       |   |   |  |  |
| Rash                                       | 8%  | 2%  | 3%   | 2%   |
| General disorders                          |   |   |  |  |
| Fatigue                                    | 2%  | 1%  | 4%   | 2%   |
| Nervous system                             |   |   |  |  |
| Headache                                   | 2%  | 4%  | 3%   | 3%   |
| <sup>a</sup> All subjects also received al | bacavir and lamivudine                        | twice daily.                              |  |  |

## Table 4. Selected Moderate/Severe Clinical Adverse Reactions Reported in Greater than or Equal to 2% of Protected Indibition experienced Advill Subjects (Trial ADV20003)

| Adverse Reaction | Fosamprenavir 700 mg b.i.d./<br>Ritonavir 100 mg b.i.d.ª<br>(n = 106) | Lopinavir 400 mg b.i.d./<br>Ritonavir 100 mg b.i.d.ª<br>(n = 103) |
|------------------|---|---|
| Gastrointestinal |   |   |
| Diarrhea         | 13%   | 11%   |
| Nausea           | 3%  | 9%  |
| Vomiting         | 3%  | 5%  |
| Abdominal pain   | < 1%  | 2%  |
| Skin             |   |   |
| Rash             | 3%  | 0%  |
| Nervous system   |   |   |
| Headache         | 4%  | 2%  |

All subjects also received two reverse transcriptase inhibitors

Skin rash (without regard to causality) occurred in approximately 19% of subjects treated with fosamprenavir in the pivotal efficacy trials. Rashes were usually maculopapular and of mild or moderate intensity, some with pruritus. Rash had a median onset of 11 days after initiation of fosamprenavir and had a median duration of 13 days. Skin rash led to discontinuation of fosamprenavir in less than 1% of subjects. In some subjects with mild or moderate rash, dosing with fosamprenavir was often continued without interruption; if interrupted, reintroduction of fosamprenavir generally did not result in rash recurrence.

The percentages of subjects with Grade 3 or 4 laboratory abnormalities in the clinical efficacy trials of fosamprenavir are presented in Tables 5 and 6.

Table 5. Grade 3/4 Laboratory Abnormalities Reported in Greater than or Equal to 2% of Antiretroviralnaive Adult Subjects in Trials APV30001 and APV30002

|  | APV30001ª                                     |   | APV30002ª  |  |
|--|---|---|--|--|
| Laboratory Abnormality   | Fosamprenavir<br>1,400 mg b.i.d.<br>(n = 166) | Nelfinavir<br>1,250 mg b.i.d.<br>(n = 83) | Fosamprenavir<br>1,400 mg q.d./<br>Ritonavir<br>200 mg q.d.<br>(n = 322) | Nelfinavir<br>1,250 mg b.i.d.<br>(n = 327) |
| ALT (> 5 x ULN)  | 6%  | 5%  | 8%   | 8%   |
| AST (> 5 x ULN)  | 6%  | 6%  | 6%   | 7%   |
| Serum lipase (> 2 x ULN)   | 8%  | 4%  | 6%   | 4%   |
| Triglycerides <sup>b</sup><br>(> 750 mg/dL)                                  | 0%  | 1%  | 6%   | 2%   |
| Neutrophil count, absolute<br>(< 750 cells/mm <sup>3</sup> )                 | 3%  | 6%  | 3%   | 4%   |
| <sup>a</sup> All subjects also received abacavir and lamivudine twice daily. |   |   |  |  |

<sup>9</sup> Fasting specimens

ULN = Upper limit of norma

The incidence of Grade 3 or 4 hyperglycemia in antiretroviral-naive subjects who received fosamprenavir in the pivotal trials was less than 1%

Table 6. Grade 3/4 Laboratory Abnormalities Reported in Greater than or Equal to 2% of Protease Inhibitor experienced Adult Subjects in Trial APV30003

| Laboratory Abnormality                   | Fosamprenavir 700 mg b.i.d./<br>Ritonavir 100 mg b.i.d.ª<br>(n = 104) | Lopinavir 400 mg b.i.d./<br>Ritonavir 100 mg b.i.d.ª<br>(n = 103) |  |  |
|--|---|---|--|--|
| Triglycerides <sup>b</sup> (> 750 mg/dL) | 11%°  | 6% <sup>c</sup>   |  |  |
| Serum lipase (> 2 x ULN)                 | 5%  | 12%   |  |  |
| ALT (> 5 x ULN)                          | 4%  | 4%  |  |  |
| AST (> 5 x ULN)                          | 4%  | 2%  |  |  |
| Glucose (> 251 mg/dL)                    | 2%°   | 2%°   |  |  |
|  |   |   |  |  |

All subjects also received two reverse transcriptase inhibitors

Fasting specimens. n = 100 for fosamprenavir plus ritonavir, n = 98 for lopinavir plus ritonavir.

ULN = Upper limit of normal

Pediatric Trials: Fosamprenavir with and without ritonavir was studied in 237 HIV-1-infected pediatric subjects aged at least 4 weeks to 18 years in three open-label trials, APV20002, APV20003, and APV29005 [see Clinical Studies (14.3)] Vomiting and neutropenia occurred more frequently in pediatric subjects compared with adults Other adverse events occurred with similar frequency in pediatric subjects compared with adults. The frequency of vomiting among pediatric subjects receiving fisamprenavir twice daily with ritonavir was 20%

in subjects aged at least 4 weeks to younger than 2 years and 36% in subjects aged 2 to 18 years compared with 10% in adults. The frequency of vomiting among pediatric subjects receiving fosamprenavir twice daily without ritonavir was 60% in subjects aged 2 to 5 years compared with 16% in adults. The median duration of drug-related vomiting episodes in APV29005 was one day (range: 1 to 3 days), in

APV20003 was 16 days (range: 1 to 38 days), and in APV20002 was 9 days (range: 4 to 13 days). Vomiting was treatment limiting in four pediatric subjects across all three trials.

The incidence of Grade 3 or 4 neutropenia (neutrophils less than 750 cells per mm<sup>3</sup>) seen in pediatric subjects treated with fosamprenavir with and without ritonavir was higher (15%) than the incidence seen in adult subjects (3%). Grade 3/4 neutropenia occurred in 10% (5 of 51) of subjects aged at least 4 weeks to younger than 2 years and 16% (28 of 170) of subjects aged 2 to 18 years.

#### 6.2 Postmarketing Experience

The following adverse reactions have been identified during postapproval use of fosamprenavir. Because these reactions are reported voluntarily from a population of unknown size, It is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure. These reactions have been chosen for inclusion due to a combination of their seriousness, frequency of reporting, or potential causal connection to fosamprenavir.

Cardiac Disorders: Myocardial infarction. Metabolism and Nutrition Disorders: Hypercholesterolemia.

Nervous System Disorders: Oral paresthesia

Skin and Subcutaneous Tissue Disorders: Angioedema

7.1 Cytochrome P450 Inhibitors and Inducers

al: Nephrolithiasis DRUG INTERACTIONS

See also Contraindications (4), Clinical Pharmacology (12.3).

If fosamprenavir is used in combination with ritonavir, see full prescribing information for ritonavir for additional information on drug interactions.

Refer to the quetiapine prescribing information for initial ing and titration of quetiapine Benzodiazepines: Clinical significance is unknown. A decrease in Benzodiazepines Alprazolam, clorazepate penzodiazepine dose may be needed. diazepam, flurazepan

Calcium channel \*Calcium channel blockers Use with caution. Clinical monitoring of patients is blockers: Diltiazem, felodipine,

| nimodipinė, verapamil,<br>amlodipinė, nisoldipinė,<br>isradipinė |             |   |
|--|-------------|---|
| <b>Corticosteroid:</b><br>Dexamethasone                          | ↓Amprenavir | Use with caution. Fosamprenavir may be less effective due to decreased amprenavir plasma concentrations.  |
| Endothelin-receptor<br>antagonists:<br>Bosentan                  | ∱Bosentan   | Coadministration of bosentan in patients on.<br>fosamprenavir: In patients who have been receiving<br>fosamprenavir for at least 10 days, start bosentan at<br>62.5 mg once daily or every other day based upon<br>individual tolerability. |
|  |             | <u>Coadministration of fosamprenavir in patients on</u><br><u>bosentan:</u> Discontinue use of bosentan at least 36 hours<br>prior to initiation of fosamprenavir.  |

nifedipine, nicardipine

After at least 10 days following the initiation of fosamprenavir, resume bosentan at 62.5 mg once daily or every other day based upon individual tolerability. Histamine H<sub>2</sub>-receptor Use with caution. Fosamprenavir may be less effective Fosamprenavir: antagonists Amprenavir due to decreased amprenavir plasma concentrations etidine, famotidine Fosamprenavir/ritonavir: izatidine, ranitidineª nteraction not evaluated HMG-CoA reductase ↑ Atorvastat Titrate atorvastatin dose carefully and use the lowest

| Atorvastatin <sup>a</sup>                                     |  | necessary dose; do not exceed atorvastatin 20 mg/day.  |
|---|--|--|
| Immunosuppressants:<br>Cyclosporine, tacrolimus,<br>sirolimus | ↑Immunosuppressants  | Therapeutic concentration monitoring is recommended<br>for immunosuppressant agents.   |
| Inhaled beta-agonist:<br>Salmeterol                           | ∱Salmeterol  | Concurrent administration of salmeterol with<br>fosamprenavir is not recommended. The combination<br>may result in increased risk of cardiovascular adverse<br>events associated with salmeterol, including QT<br>prolongation, palpitations, and sinus tachycardia. |
| Inhaled/nasal steroid:<br>Fluticasone                         | Fosamprenavir:<br>†Fluticasone<br>Fosamprenavir/ritonavir:<br>†Fluticasone | Use with caution. Consider alternatives to fluticasone,<br>particularly for long-term use.<br>May result in significantly reduced serum cortisol<br>concentrations. Systemic corticosteroid effects  |

including Cushing's syndrome and adrenal suppression have been reported during postmarketing use in

Amprenavir is principally metabolized by the liver; therefore, caution should be exercised when administering Insplant is patients with hepatic impairment because amprenavir concentrations may be increased [see *Clinical Pharmacology* (12.3)]. Patients with impaired hepatic function receiving fosamprenavir with or without concurrent ritonavir require dose reduction [see Dosage and Administration (2.3)].

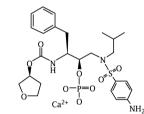
#### There are no data to support dosing recommendations for pediatric subjects with hepatic impairment 10 OVERDOSAGE

In a healthy volunteer repeat-dose pharmacokinetic trial evaluating high-dose combinations of fosamprenavir plus ritonavir, an increased frequency of Grade 2/3 ALT elevations (greater than 2.5 x ULN) was observed with fosamprenavir 1,400 mg twice daily plus ritonavir 200 mg twice daily (4 of 25 subjects). Concurrent Grade 1/2 elevations in AST (greater than 1.25 x ULN) were noted in 3 of these 4 subjects. These transaminase elevations resolved following discontinuation of dosing.

There is no known antidote for fosamprenavir. It is not known whether amprenavir can be removed by peritoneal dialysis or hemodialysis, although it is unlikely as amprenavir is highly protein bound. If overdosage occurs, the patient should be monitored for evidence of toxicity and standard supportive treatment applied as necessary.

### 11 DESCRIPTION

Fosamprenavir calcium is a prodrug of amprenavir, an inhibitor of HIV protease. The chemical name of fosamprenavir calcium is (35)-tetrahydrofuran-3-yl (1*S*,2*R*)-3-[[(4-aminophenyl) sulfonyl](isobutyl)amino]-1-berzyl-2-(hosphonooxy) propylcarbanate monocalcium salt. Fosamprenavir calcium is a single stereoisomer with the (3*S*)(1*S*,2*R*) configuration. It has a molecular formula of  $C_{zs}H_{ss}CaN_sO_pS$  and a molecular weight of 623.67. It has the following structural formula:



Fosamprenavir calcium is a white to cream colored powder with a solubility of approximately 0.31 mg per mL in water at 25°C

as fosamprenavir calcium (equivalent to approximately 600 mg of astrength of 700 mg of fosamprenavir as tosamprenavir calcium (equivalent to approximately 600 mg of amprenavir). Each 700 mg tablet contains the inactive ingredients colloidal silicon dioxide, croscarmellose sodium, hypromellose, magnesium stearate, microcrystalline cellulose, povidone, red iron oxide, silicified microcrystalline cellulose, titanium dioxide and triacetin. Fosamprenavir calcium tablets are available for oral administration in a strength of 700 mg of fosamprenavir

### 12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Fosamprenavir is an antiviral agent [see Microbiology (12.4)]. 12.3 Pharmacokinetics

The pharmacokinetic properties of amprenavir after administration of fosamprenavir, with or without ritonavir, have been evaluated in both healthy adult volunteers and in HIV-1-infected subjects; no substantial differences in steady-state amprenavir concentrations were observed between the two populations.

The pharmacokinetic parameters of amprenavir after administration of fosamprenavir (with and without

| conconna | and monavity are shown in table 0.  |
|----------|---|
| Table 8  | Geometric Mean (95% CI) Steady-state Plasma Amprenavir Pharmacokinetic Parameters in Adul |

| Regimen                          | C <sub>max</sub> | T <sub>max</sub>     | AUC <sub>24</sub> | C <sub>min</sub> |
|----------------------------------|------------------|----------------------|-------------------|------------------|
|                                  | (mcg/mL)         | (hours) <sup>a</sup> | (mcg•hr/mL)       | (mcg/mL)         |
| Fosamprenavir 1,400 mg b.i.d.    | 4.82             | 1.3                  | 33.0              | 0.35             |
|                                  | (4.06 to 5.72)   | (0.8 to 4.0)         | (27.6 to 39.2)    | (0.27 to 0.46)   |
| Fosamprenavir 1,400 mg q.d. plus | 7.24             | 2.1                  | 69.4              | 1.45             |
| Ritonavir 200 mg q.d.            | (6.32 to 8.28)   | (0.8 to 5.0)         | (59.7 to 80.8)    | (1.16 to 1.81)   |
| Fosamprenavir 1,400 mg q.d. plus | 7.93             | 1.5                  | 66.4              | 0.86             |
| Ritonavir 100 mg q.d.            | (7.25 to 8.68)   | (0.75 to 5.0)        | (61.1 to 72.1)    | (0.74 to 1.01)   |
| Fosamprenavir 700 mg b.i.d. plus | 6.08             | 1.5                  | 79.2              | 2.12             |
| Ritonavir 100 mg b.i.d.          | (5.38 to 6.86)   | (0.75 to 5.0)        | (69.0 to 90.6)    | (1.77 to 2.54)   |

<sup>a</sup> Data shown are median (range).

established.

Dosage and Administration (2)].

higher concentrations.

The mean plasma amprenavir concentrations of the dosing regimens over the dosing intervals are displayed in Figure 1. Figure 1. Mean (±SD) Steady-state Plasma Amprenavir Concentrations and Mean EC<sub>50</sub> Values against HIV

10 12 14

■- Fosamprenavir 1,400 mg once daily plus ritonavir 200 mg once daily (n = 22) ~> Fosamprenavir 700 mg twice daily plus ritonavir 100 mg twice daily (n = 24) → Fosamprenavir 1,400 mg twice daily (n = 22) ~> Fosamprenavir 1,400 mg once daily plus ritonavir 100 mg once daily (n = 36)

Absorption and Bioavailability: After administration of a single dose of fosamprenavir to HIV-1-infected subjects, the time to peak amprenavir concentration ( $T_{max}$ ) occurred between 1.5 and 4 hours (median 2.5 hours). The absolute oral bioavailability of amprenavir after administration of fosamprenavir in humans has not been

After administration of a single 1,400 mg dose in the fasted state, fosamprenavir calcium oral suspension (50 mg

per mL) and fosamprenavir calcium tablets (700 mg) provided similar amprenavir exposures (AUC), however, the  $C_{max}$  of amprenavir after administration of the suspension formulation was 14.5% higher compared with the tablet.

Effects of Food on Oral Absorption: Administration of a single 1,400 mg dose of fosamprenavir calcium tablets in the fed state (standardized high-fat meal: 967 kcal, 67 grams fat, 33 grams protein, 58 grams carbohydrate) compared with the fasted state was associated with no significant changes in amprenavir  $C_{max}$ ,  $T_{max}$  or AUC<sub>0 a</sub> [see

**Distribution:** In vitro, amprenavir is approximately 90% bound to plasma proteins, primarily to alpha, acid glycoprotein. In vitro, concentration-dependent binding was observed over the concentration range of 1 to 10 mcg per mL, with decreased binding at higher concentrations. The partitioning of amprenavir into erythrocytes is low, but increases as amprenavir concentrations increase, reflecting the higher amount of unbound drug at

Metabolism: After oral administration, fosamprenavir is rapidly and almost completely hydrolyzed to amprenavir and inorganic phosphate prior to reaching the systemic circulation. This occurs in the gut epithelium during absorption. Amprenavir is metabolized in the liver by the CYP3A4 enzyme system. The two major metabolites

have been identified as minor metabolites in urine and feces.

Elimination: Excretion of unchanged amprenavir in urine and feces is minimal. Unchanged amprenavir in urine accounts for approximately 1% of the dose; unchanged amprenavir was not detectable in feces. Approximately 1% of the dose; unchanged amprenavir was not detectable in feces. Approximately 14% and 75% of an administered single dose of <sup>14</sup>C-amprenavir can be accounted for as metabolites in ur and feces, respectively. Two metabolites accounted for greater than 90% of the radiocarbon in fecal samples.

Special Populations: Hepatic Impairment: The pharmacokinetics of amprenavir have been studied after the administration of fosamprenavir in combination with ritonavir to adult HIV-1-infected subjects with mild, moderate, and severe hepatic impairment. Following 2 weeks of dosing with fosamprenavir plus ritonavir, the AUC

of amprenavir was increased by approximately 22% in subjects with mild hepatic impairment, by approximately

Amprenavir is both a substrate for and inducer of P-glycoprotein

plasma elimination half-life of amprenavir is approximately 7.7 hours.

Mean wild-type EC<sub>50</sub>-0.0146 mcg

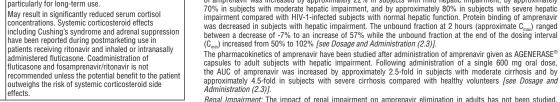
ease Inhibitor-naive Subjects (in the Absence of Human Serum)

stroviral therapy, rted in patients treated with com including fosamprenavir. During the initial phase of combination antiretroviral treatment, patients whose immune systems respond may develop an inflammatory response to indolent or residual opportunistic infections (such as Mycobacterium avium infection, cytomegalovirus, Pneumocystis jirovecii pneumonia [PCP], or tuberculosis). vhich may necessitate further evaluation and treatment

Autoimmune disorders (such as Graves' disease, polymyositis, and Guillain-Barré syndrome) have also been reported to occur in the setting of immune reconstitution; however, the time to onset is more variable, and can occur many months after initiation of treatment

Amprenavir, the active metabolite of fosamprenavir, is an inhibitor of CYP3A4 metabolism and therefore should not be administered concurrently with medications with narrow therapeutic windows that are substrates of CYP3A4. Data also suggest that amprenavir induces CYP3A4.

Amprenavir is metabolized by CYP3A4 Coadministration of fosamprenavir and drugs that induce CYP3A4 such An prenavir as instabilized by of 1944. Octaministration of losarippentavir and briggs inta induce of 1944, south as rifampin, may decrease amprenavir concentrations and reduce its therapeutic effect. Coadministration of fosamprenavir and drugs that inhibit CYP3A4 may increase amprenavir concentrations and increase the incidence of adverse effects.



The renal elimination of unchanged amprenavir represents approximately 1% of the administered dose: therefore real impairment is not expected to significantly impact the elimination of amprenavir. Pediatric Patients: The pharmacokinetics of amprenavir following administration of fosamprenavir.

uspension and fosamprenavir calcium tablets, with or without ritonavir, have been studied in a total of 212 HIV-1-infected pediatric subjects enrolled in three trials. Fosamprenavir without ritonavir was administered as 30 or 40 mg per kg twice daily to children aged 2 to 5 years. Fosamprenavir with ritonavir was administered as fosamprenavir 30 mg per kg plus ritonavir 6 mg per kg once daily to children aged 2 to 18 years and as fosamprenavir 18 to 60 mg per kg plus ritonavir 3 to 10 mg per kg twice daily to children aged at least 4 weeks to

18 years; body weights ranged from 3 to 103 kg. Amprenavir apparent clearance decreased with increasing weight. Weight-adjusted apparent clearance was higher in children younger than 4 years, suggesting that younger children require higher mg-per-kg dosing of samprenavir

The pharmacokinetics of fosamprenavir calcium oral suspension in protease inhibitor-naive infants younge than 6 months (n = 9) receiving fosamprenavir 45 mg per kg plus ritonavir 10 mg per kg twice daily generally demonstrated lower AUC<sub>10</sub> and  $C_{me}$  than adults receiving twice-daily fosamprenavir 700 mg plus ritonavir 100 mg, the dose recommended for protease-experienced adults. The mean steady-state amprenair AU<sub>127</sub>,  $C_{max}$ , and  $C_{max}$  were 26.6 mcg-hour per mL, 6.25 mcg per mL, and 0.86 mcg per mL, respectively. Because of expected low amprenaivir exposure and a requirement for large volume of drug, twice-daily dosing of fosamprenaivir alone (without ritonavir) in pediatric subjects younger than 2 years was not studied.

Pharmacokinetic parameters for fosampenavir administered with food and with ritonavir in this patient population at the recommended weight-band-based dosage regimens are provided in Table 9.

Table 9. Geometric Mean (95% Cl) Steady-state Plasma Amprenavir Pharmacokinetic Parameters by Weight in Pediatric and Adolescent Subjects Aged at Least 4 Weeks to 18 Years Receiving Encomprenavir with Bitneavir

|                       | i usamprenavni with mitonavni                           |                            |                      |                   |                      |                  |                      |
|-----------------------|---|----------------------------|----------------------|-------------------|----------------------|------------------|----------------------|
| Weight                | Recommended Dosage                                      | C <sub>max</sub>           |                      | AUC <sub>24</sub> |                      | C <sub>min</sub> |                      |
|                       | Regimen   | n                          | (mcg/mL)             | n                 | (mcg•hr/mL)          | n                | (mcg/mL)             |
| < 11 kg               | Fosamprenavir 45 mg/kg plus<br>Ritonavir 7 mg/kg b.i.d. | 12                         | 6.00<br>(3.88, 9.29) | 12                | 57.3<br>(34.1, 96.2) | 27               | 1.65<br>(1.22, 2.24) |
| 11 kg to<br>< 15 kg   | Fosamprenavir 30 mg/kg plus<br>Ritonavir 3 mg/kg b.i.d. | s Not studied <sup>a</sup> |                      |                   |                      |                  |                      |
| 15 kg to<br>< 20 kg   | Fosamprenavir 23 mg/kg plus<br>Ritonavir 3 mg/kg b.i.d. | 5                          | 9.54<br>(4.63, 19.7) | 5                 | 121<br>(54.2, 269)   | 9                | 3.56<br>(2.33, 5.43) |
| > 20 kg to<br>< 39 kg | Fosamprenavir 18 mg/kg plus<br>Ritonavir 3 mg/kg b.i.d. | 13                         | 6.24<br>(5.01, 7.77) | 12                | 97.9<br>(77.0, 124)  | 23               | 2.54<br>(2.11, 3.06) |
| ≥39 kg                | Fosamprenavir 700 mg plus<br>Ritonavir 100 mg b.i.d.    | 15                         | 5.03<br>(4.04, 6.26) | 15                | 72.3<br>(59.6, 87.6) | 42               | 1.98<br>(1.72, 2.29) |

Recommended dose for pediatric patients weighing 11 kg to less than 15 kg is based on population pharmacokinetic analys

Subjects aged 2 to younger than 6 years receiving fosamprenavir 30 mg per kg twice daily without ritonavir achieved geometric mean (95% CI) amprenavir  $C_{max}$  (n = 9), AUC<sub>12</sub> (n = 9), and  $C_{min}$  500 (n = 19) of 7.15 (5.05, 10.1), 22.3 (15.3, 32.6), and 0.513 (0.384, 0.686), respectively.

*Geriatic Patients*: The pharmacokinetics of amprenavir after administration of fosamprenavir to patients older than 65 years have not been studied [see Use in Specific Populations (8.5)].

Gender: The pharmacokinetics of amprenavir after administration of fosamprenavir do not differ between males

Race: The pharmacokinetics of amprenavir after administration of fosamprenavir do not differ between blacks and

Drug Interactions: [See Contraindications (4), Warnings and Precautions (5.1), Drug Interactions (7).]

Amprenavir, the active metabolite of fosamprenavir, is metabolized in the liver by the cytochrome P450 enzyme system. Amprenavir inhibits CYP3A4. Data also suggest that amprenavir induces CYP3A4. Caution should be used when coadministering medications that are substrates, inhibitors, or inducers of CYP3A4, or potentially toxic medications that are metabolized by CYP3A4. Amprenavir does not inhibit CYP2D6, CYP1A2, CYP2C9, CYP2C19, CYP2E1, or uridine glucuronosyltransferase (UDPGT). Amprenavir is both a substrate for and inducer of P-alycoprotein

Drug interaction trials were performed with fosamprenavir and other drugs likely to be coadministered or drugs commonly used as probes for pharmacokinetic interactions. The effects of coadministration on AUC,  $C_{max}$ , and  $C_{max}$  values are summarized in Table 10 (effect of other drugs on amprenavir) and Table 12 (effect of fosamprenavir) on other drugs). In addition, since fosamprenavir delivers comparable amprenavir plasma concentrations as AGENERASE, drug interaction data derived from trials with AGENERASE are provided in Tables 11 and 13. For information regarding clinical recommendations, [see Drug Interactions (7)]

### Table 10. Drug Interactions: Pharmacokinetic Parameters for Amprenavir after Administration of

|  |   |          | % Change in Amprenavir Pharmacokine<br>Parameters (90% CI)  |                                    |   |  |  |
|--|---|----------|---|------------------------------------|---|--|--|
| Coadministered Drug(s) and   | Dose of<br>Fosamprenavir <sup>a</sup>                                     | n        |   | AUC                                |   |  |  |
| Dose(s)  |   | <u> </u> | C <sub>max</sub>  |                                    | C <sub>min</sub>                                |  |  |
| Antacid (MAALOX TC <sup>®</sup> ) 30 mL<br>single dose                         | 1,400 mg<br>single dose   | 30       | ↓35<br>(↓24 to ↓42)   | ↓18<br>(↓9 to ↓26)                 | ↑14<br>(↓7 to ↑39)                              |  |  |
| Atazanavir 300 mg  | 700 ma b.i.d. plus  | 22       | (↓24 10 ↓42)  | (1310120)                          | (↓110   33)                                     |  |  |
| q.d. for 10 days   | ritonavir 100 mg b.i.d.<br>for 10 days                                    | 22       | , in the second | •                                  | ¢   |  |  |
| Atorvastatin 10 mg<br>q.d. for 4 days  | 1,400 mg b.i.d.<br>for 2 weeks  | 16       | ↓18<br>(↓34 to ↑1)  | ↓27<br>(↓41 to ↓12)                | ↓12<br>(↓27 to ↓6)                              |  |  |
| Atorvastatin 10 mg<br>q.d. for 4 days  | 700 mg b.i.d. plus<br>ritonavir 100 mg b.i.d.                             | 16       | ↔   | ⇔                                  | ⇔   |  |  |
|  | for 2 weeks   |          |   |                                    |   |  |  |
| Efavirenz 600 mg<br>q.d. for 2 weeks   | 1,400 mg q.d. plus<br>ritonavir 200 mg q.d.<br>for 2 weeks                | 16       | ↔   | ↓13<br>(↓30 to ↑7)                 | ↓36<br>(↓8 to ↓56)                              |  |  |
| Efavirenz 600 mg   | 1.400 mg a.d. plus  | 16       | ↑18   | 11                                 | ↔   |  |  |
| q.d. plus additional<br>ritonavir 100 mg q.d. for 2 weeks                      | ritonavir 200 mg q.d.<br>for 2 weeks                                      |          | (↑1 to ↑38)   | (0 to ↑24)                         |   |  |  |
| Efavirenz 600 mg<br>q.d. for 2 weeks   | 700 mg b.i.d. plus<br>ritonavir 100 mg b.i.d.                             | 16       | ↔   | ⇔                                  | ↓17<br>(↓4 to ↓29)                              |  |  |
| Esomeprazole 20 mg   | for 2 weeks<br>1,400 mg b.i.d.  | 25       | ↔   | ↔                                  | ↔   |  |  |
| q.d. for 2 weeks   | for 2 weeks   | L        |   |                                    |   |  |  |
| Esomeprazole 20 mg<br>q.d. for 2 weeks   | 700 mg b.i.d. plus<br>ritonavir 100 mg b.i.d.<br>for 2 weeks              | 23       | ↔   | ↔                                  | ↔   |  |  |
| Ethinyl estradiol/norethindrone<br>0.035 mg/0.5 mg q.d.<br>for 21 days         | 700 mg b.i.d. plus<br>ritonavir <sup>b</sup> 100 mg b.i.d.<br>for 21 days | 25       | ⇔°  | ⇔°                                 | ⇔ <sup>c</sup>                                  |  |  |
| Ketoconazole <sup>d</sup><br>200 mg q.d. for 4 days                            | 700 mg b.i.d. plus<br>ritonavir 100 mg b.i.d.<br>for 4 days               | 15       | ↔   | ⇔                                  | ⇔   |  |  |
| Lopinavir/ritonavir<br>533 mg/133 mg b.i.d.                                    | 1,400 mg b.i.d.<br>for 2 weeks  | 18       | ↓13°  | ↓26°                               | ↓42 <sup>e</sup>                                |  |  |
| 533 mg/ 133 mg b.i.d.<br>Lopinavir/ritonavir                                   | 700 mg b.i.d. plus  | 18       | 150   | 160                                | 165   |  |  |
| Lopinavir/ritonavir<br>400 mg/100 mg b.i.d.<br>for 2 weeks                     | ritonavir 100 mg b.i.d.<br>for 2 weeks                                    | 01       | ↓58<br>(↓42 to ↓70)   | ↓63<br>(↓51 to ↓72)                | ↓65<br>(↓54 to ↓73)                             |  |  |
| Maraviroc 300 mg<br>b.i.d. for 10 days   | 700 mg b.i.d. plus<br>ritonavir 100 mg b.i.d.<br>for 20 days              | 14       | ↓34<br>(↓25 to ↓41)   | ↓35<br>(↓29 to ↓41)                | ↓36<br>(↓27 to ↓43)                             |  |  |
| Maraviroc 300 mg<br>q.d. for 10 days   | 1,400 mg q.d. plus<br>ritonavir 100 mg q.d.<br>for 20 days                | 14       | ↓29<br>(↓20 to ↓38)   | ↓30<br>(↓23 to ↓36)                | ↓15<br>(↓3 to ↓25)                              |  |  |
| Methadone 70 mg to 120 mg<br>q.d. for 2 weeks                                  | 700 mg b.i.d. plus<br>ritonavir 100 mg b.i.d.<br>for 2 weeks              | 19       | ⇔°  | ⇔°                                 | ⇔°  |  |  |
| Nevirapine 200 mg<br>b.i.d. for 2 weeks <sup>f</sup>                           | 1,400 mg b.i.d. for 2<br>weeks  | 17       | ↓25<br>(↓37 to ↓10)   | ↓33<br>(↓45 to ↓20)                | ↓35<br>(↓50 to ↓15)                             |  |  |
| Nevirapine 200 mg<br>b.i.d. for 2 weeks <sup>f</sup>                           | 700 mg b.i.d. plus<br>ritonavir 100 mg b.i.d.<br>for 2 weeks              | 17       | ↔   | ↓11<br>(↓23 to ↑3)                 | ↓19<br>(↓32 to ↓4)                              |  |  |
| Phenytoin 300 mg<br>q.d. for 10 days   | 700 mg b.i.d. plus<br>ritonavir 100 mg b.i.d.                             | 13       | ↔   | ↑20<br>(↑8 to ↑34)                 | ↑19<br>(↑6 to ↑33)                              |  |  |
| Raltegravir 400 mg<br>b.i.d. for 14 days                                       | for 10 days<br>1,400 mg b.i.d.<br>for 14 days (fasted)                    | 14       | ↓27<br>(↓46 to ⇔)   | ↓36<br>(↓53 to ↓13)                | ↓43 <sup>9</sup><br>(↓59 to ↓21)                |  |  |
| 5.1.u. 101 14 uayo   | 1,400 mg b.i.d.<br>for 14 days <sup>h</sup>                               | 14       | ↓15<br>(↓27 to ↓1)  | (↓53 to ↓13)<br>↓17<br>(↓27 to ↓6) | (↓59 t0 ↓21)<br>↓32 <sup>g</sup><br>(↓53 to ↓1) |  |  |
|  | 700 mg b.i.d. plus<br>ritonavir 100 mg b.i.d.                             | 14       | ↓14<br>(↓39 to ↑20)   | (↓27 to ↓0)<br>↓17<br>(↓38 to ↑12) | ↓20 <sup>g</sup><br>(↓45 to ↑17)                |  |  |
|  | for 14 days (fasted)<br>700 mg b.i.d. plus<br>ritonavir 100 mg b.i.d.     | 12       | ↓25   | ↓25                                | ↓33º  |  |  |
| Raltegravir 400 mg   | for 14 days <sup>h</sup><br>1,400 mg q.d. plus                            | 13       | (↓42 to ↓2)<br>↓18  | (↓44 to ↔)<br>↓24                  | (↓52 to ↓7)<br>↓50 <sup>9</sup>                 |  |  |
| b.i.d. for 14 days   | ritonavir 100 mg q.d.<br>for 14 days (fasted)                             |          | (↓34 to ↔)  | (↓41 to ↔)                         | (↓64 to ↓31)                                    |  |  |
|  | 1,400 mg q.d. plus<br>ritonavir 100 mg q.d.<br>for 14 days <sup>h</sup>   | 14       | ↑27<br>(↓1 to ↑62)  | ↑13<br>(↓7 to ↑38)                 | ↓17º<br>(↓45 to ↑26)                            |  |  |
| Ranitidine 300 mg single dose<br>(administered 1 hour before<br>fosamprenavir) | 1,400 mg<br>single dose   | 30       | ↓51<br>(↓43 to ↓58)   | ↓30<br>(↓22 to ↓37)                | ↔<br>(↓19 to ↑21)                               |  |  |
| Rifabutin 150 mg<br>q.o.d. for 2 weeks   | 700 mg b.i.d. plus<br>ritonavir 100 mg b.i.d.<br>for 2 weeks              | 15       | 136°<br>(18 to 155)   | 135° (17 to 156)                   | ↑17°<br>(↓1 to ↑39)                             |  |  |
| Tenofovir 300 mg<br>q.d. for 4 to 48 weeks                                     | 700 mg b.i.d. plus<br>ritonavir 100 mg b.i.d.<br>for 4 to 48 weeks        | 45       | NA  | NA                                 | ⇔ <sup>i</sup>                                  |  |  |
| Tenofovir 300 mg<br>q.d. for 4 to 48 weeks                                     | 1,400 mg q.d. plus<br>ritonavir 200 mg q.d.<br>for 4 to 48 weeks          | 60       | NA  | NA                                 | ⇔ <sup>i</sup>                                  |  |  |

| Lopinavir/ritonavir <sup>e</sup><br>400 mg/100 mg b.i.d.<br>for 2 weeks | 700 mg b.i.d. plus<br>ritonavir 100 mg b.i.d.<br>for 2 weeks | 18 | 130<br>(↓15 to ↑47)              | †37<br>(↓20 to †55)         | 152<br>(↓28 to 182)              |
|---|--|----|----------------------------------|-----------------------------|----------------------------------|
| Maraviroc 300 mg<br>b.i.d. for 10 days                                  | 700 mg b.i.d. plus<br>ritonavir 100 mg b.i.d.<br>for 20 days | 14 | 152<br>(127 to 182)              | ↑149<br>(↑119 to ↑182)      | †374<br>(†303 to †457)           |
| Maraviroc 300 mg<br>q.d. for 10 days                                    | 1,400 mg q.d. plus<br>ritonavir 100 mg q.d.<br>for 20 days   | 14 | ^45<br>(↑20 to ↑74)              | ↑126<br>(↑99 to ↑158)       | ↑80<br>(↑53 to ↑113)             |
| Methadone   | 700 mg b.i.d. plus   | 19 | R-                               | Methadone (activ            | /e)                              |
| 70 mg to 120 mg<br>q.d. for 2 weeks                                     | ritonavir 100 mg b.i.d.<br>for 2 weeks                       |    | ↓21 <sup>9</sup><br>(↓30 to ↓12) | ↓18º<br>(↓27 to ↓8)         | ↓11º<br>(↓21 to ↑1)              |
|   |  |    | S-1                              | Nethadone (inacti           | ive)                             |
|   |  |    | ↓43º<br>(↓49 to ↓37)             | ↓43º<br>(↓50 to ↓36)        | ↓41 <sup>9</sup><br>(↓49 to ↓31) |
| Nevirapine 200 mg<br>b.i.d. for 2 weeks <sup>h</sup>                    | 1,400 mg b.i.d.<br>for 2 weeks                               | 17 | ↑25<br>(↑14 to ↑37)              | ↑29<br>(↑19 to ↑40)         | 134<br>(120 to 149)              |
| Nevirapine 200 mg<br>b.i.d. for 2 weeks <sup>h</sup>                    | 700 mg b.i.d. plus<br>ritonavir 100 mg b.i.d.<br>for 2 weeks | 17 | †13<br>(†3 to †24)               | ↑14<br>(↑5 to ↑24)          | †22<br>(†9 to †35)               |
| Norethindrone <sup>c</sup> 0.5 mg<br>q.d. for 21 days                   | 700 mg b.i.d. plus<br>ritonavir 100 mg b.i.d.<br>for 21 days | 25 | ↓38<br>(↓32 to ↓44)              | ↓34<br>(↓30 to ↓37)         | ↓26<br>(↓20 to ↓32)              |
| Phenytoin 300 mg<br>q.d. for 10 days                                    | 700 mg b.i.d. plus<br>ritonavir 100 mg b.i.d.<br>for 10 days | 14 | ↓20<br>(↓12 to ↓27)              | ↓22<br>(↓17 to ↓27)         | ↓29<br>(↓23 to ↓34)              |
| Rifabutin 150 mg<br>every other day for 2 weeks <sup>i</sup>            | 700 mg b.i.d. plus<br>ritonavir 100 mg b.i.d.<br>for 2 weeks | 15 | ↓14<br>(↓28 to ↑4)               | ⇔                           | ↑28<br>(↑12 to ↑46)              |
| (25-O-desacetylrifabutin metabolite)                                    |  |    | 1579<br>(1479 to 1698)           | 1,120<br>(1965 to<br>1,300) | ↑2,510<br>(↑1,910 to<br>↑3,300)  |
| Rifabutin +<br>25-0-desacetylrifabutin<br>metabolite                    |  |    | NA                               | ↑64<br>(↑46 to ↑84)         | NA                               |
| Rosuvastatin 10 mg<br>single dose                                       | 700 mg b.i.d. plus<br>ritonavir 100 mg b.i.d.                |    | ↑45                              | †8                          | NA                               |

for 7 days Concomitant medication is also shown in this column where appropriate

Comparison arm of atazanavir 300 mg q.d. plus ritonavir 100 mg q.d. for 10 days.

Administered as a combination oral contraceptive tablet: ethinvl estradiol 0.035 mg/norethindrone 0.5 mg. Subjects were receiving fosamprenavir/ritonavir for 10 days prior to the 4-day treatment period with both ketoconazole

renavir/ritonavi

Data represent lopinavir concentrations. Compared with lopinavir 400 mg/ritonavir 100 mg b.i.d. for 2 weeks.

low the lower limit of quantit

- Dose normalized to methadone 100 mg. The unbound concentration of the active moiety, R-methadone, was unchanged.
- Subjects were receiving nevirapine for at least 12 weeks prior to trial.

Comparison arm of rifabutin 300 mg q.d. for 2 weeks. AUC is AUC (0.48 h)-↑ = Increase;  $\downarrow$  = Decrease;  $\Leftrightarrow$  = No change (↑ or  $\downarrow$  less than 10%); ND = Interaction cannot be determined as C<sub>min</sub> was

Table 13. Drug Interactions: Pharmacokinetic Parameters for Coadministered Drug in the Presence of Amprenavir after Administration of AGENERASE

| Coadministered Drug(s) and                      |   |    | % Change in Pharmacokinetic Parameters of<br>Coadministered Drug (90% Cl) |                        |                        |
|---|---|----|---|------------------------|------------------------|
| Dose(s)   | Dose of AGENERASE                               | n  | C <sub>max</sub>  | AUC                    | C <sub>min</sub>       |
| Abacavir 300 mg b.i.d.<br>for 2 to 3 weeks      | 900 mg b.i.d.<br>for 2 to 3 weeks               | 4  | ⇔ª  | ⇔ª                     | ⇔ª                     |
| Clarithromycin 500 mg b.i.d. for 4 days         | 1,200 mg b.i.d.<br>for 4 days                   | 12 | ↓10<br>(↓24 to ↑7)  | ⇔                      | ⇔                      |
| Delavirdine 600 mg b.i.d.<br>for 10 days        | 600 mg b.i.d.<br>for 10 days                    | 9  | ↓47 <sup>b</sup>  | ↓61 <sup>ь</sup>       | 188₽                   |
| Ethinyl estradiol 0.035 mg<br>for one cycle     | 1,200 mg b.i.d.<br>for 28 days                  | 10 | ⇔   | ⇔                      | 132<br>(↓3 to 179)     |
| Indinavir 800 mg t.i.d.<br>for 2 weeks (fasted) | 750 mg or 800 mg t.i.d.<br>for 2 weeks (fasted) | 9  | ↓22ª  | ↓38ª                   | ↓27ª                   |
| Ketoconazole 400 mg<br>single dose              | 1,200 mg<br>single dose                         | 12 | ↑19<br>(↑8 to ↑33)  | ↑44<br>(↑31 to ↑59)    | NA                     |
| Lamivudine 150 mg<br>single dose                | 600 mg<br>single dose                           | 11 | ⇔   | ⇔                      | NA                     |
| Methadone 44 mg to 100 mg                       | 1,200 mg b.i.d. for                             | 16 | R-  | Methadone (activ       | /e)                    |
| q.d. for > 30 days                              | 10 days   |    | ↓25   | ↓13                    | ↓21                    |
|   |   |    | (↓32 to ↓18)  | (↓21 to ↓5)            | (↓32 to ↓9)            |
|   |   |    | S-1   | Methadone (inact       | ive)                   |
|   |   |    | ↓48   | ↓40                    | ↓53                    |
| Nelfinavir 750 mg t.i.d.<br>for 2 weeks (fed)   | 750 mg or 800 mg t.i.d.<br>for 2 weeks (fed)    | 6  | (↓55 to ↓40)<br>↑12ª  | (↓46 to ↓32)<br>↑15ª   | (↓60 to ↓43)<br>↑14ª   |
| Norethindrone 1 mg<br>for one cycle             | 1,200 mg b.i.d.<br>for 28 days                  | 10 | ↔   | ↑18<br>(↑1 to ↑38)     | ↑45<br>(↑13 to ↑88)    |
| Rifabutin 300 mg q.d.<br>for 10 days            | 1,200 mg b.i.d.<br>for 10 days                  | 5  | ↑119<br>(↑82 to ↑164)   | ↑193<br>(↑156 to ↑235) | ↑271<br>(↑171 to ↑409) |
| Rifampin 300 mg q.d.<br>for 4 days              | 1,200 mg b.i.d.<br>for 4 days                   | 11 | ⇔   | ⇔                      | ND                     |
| Saquinavir 800 mg t.i.d.<br>for 2 weeks (fed)   | 750 mg or 800 mg t.i.d.<br>for 2 weeks (fed)    | 7  | ∱21ª  | ↓19ª                   | ↓48ª                   |
| Zidovudine 300 mg<br>single dose                | 600 mg<br>single dose                           | 12 | ↑40<br>(↑14 to ↑71)   | ↑31<br>(↑19 to ↑45)    | NA                     |

Compared with historical data <sup>b</sup> Median percent change; confidence interval not reported

↑ = Increase; ↓ = Decrease; ↔ = No change (↑ or ↓ less than 10%); NA = C<sub>min</sub> not calculated for single-dose trial; ND = ction cannot be determined as C<sub>min</sub> was below the lower limit of quantita

| Screening Viral Load<br>HIV-1 RNA | Fosamprena<br>1,400 mg b. |    | Nelfinavir<br>1,250 mg b.i.d. |    |
|-----------------------------------|---------------------------|----|-------------------------------|----|
| (copies/mL)                       | < 400 copies/mL           | n  | < 400 copies/mL               | n  |
| ≤ 100,000                         | 65%                       | 93 | 65%                           | 46 |
| > 100,000                         | 67%                       | 73 | 36%                           | 37 |

Through 48 weeks of therapy, the median increases from baseline in CD4+ cell counts were 201 cells per mm<sup>3</sup> in e group receiving fosamprenavir and 216 cells per mm<sup>3</sup> in the nelfinavir group. APV30002: A randomized, open-label trial evaluated treatment with fosamprenavir calcium tablets (1.400 mg once

Ar v3002. A failure of the second and the area of the The mean age of the subjects in this trial was 37 years (range: 18 to 69 years), 73% of the subjects were male. 100,000 copies per mL).

The outcomes of randomized treatment are provided in Table 17.

Table 17. Outcomes of Bandomized Treatment through Week 48 (APV30002)

| Outcome<br>(Rebound or discontinuation = failure) | Fosamprenavir 1,400 mg q.d./<br>Ritonavir 200 mg q.d.<br>(n = 322) | Nelfinavir<br>1,250 mg b.i.d.<br>(n = 327) |
|---|--|--|
| Responder <sup>a</sup>                            | 69% (58%)  | 68% (55%)                                  |
| Virologic failure                                 | 6%   | 16%  |
| Rebound   | 5%   | 8%   |
| Never suppressed through Week 48                  | 1%   | 8%   |
| Death   | 1%   | 0%   |
| Discontinued due to adverse reactions             | 9%   | 6%   |
| Discontinued due to other reasons <sup>b</sup>    | 15%  | 10%  |

Includes consent withdrawn, lost to follow up, protocol violations, those with missing data, and other reasons

Treatment response by viral load strata is shown in Table 18

#### Table 18. Proportions of Responders through Week 48 by Screening Viral Load (APV30002)

| Screening Viral Load<br>HIV-1 RNA | Fosamprenavir 1,400<br>Ritonavir 200 mg | ••• | Nelfinavir<br>1,250 mg b.i.d. |     |  |
|-----------------------------------|---|-----|-------------------------------|-----|--|
| (copies/mL)                       | < 400 copies/mL                         | n   | < 400 copies/mL               | n   |  |
| ≤ 100,000                         | 72%                                     | 197 | 73%                           | 194 |  |

66%

Through 48 weeks of therapy, the median increases from baseline in CD4+ cell counts were 203 cells per mm<sup>3</sup> in the group receiving fosamprenavir and 207 cells per mm<sup>3</sup> in the nelfinavir group

125

### 14.2 Protease Inhibitor-experienced Adult Trials

> 100,000

APV30003: A randomized, open-label, multicenter trial evaluated two different regimens of fosamprenavir plus Arysous: A range of the second twice daily) in 315 subjects who had experienced virologic failure to one or two prior protease inhibitor regimens

The mean age of the subjects in this trial was 42 years (range: 24 to 72 years), 85% were male, 33% were CDC Class C, 67% were white, 24% were black, and 9% were Hispanic. The median CD4+ cell count at baseline was 263 cells per mm<sup>3</sup> (range: 2 to 1,171 cells per mm<sup>3</sup>). Baseline median plasma HIV-1 RNA level was 4.14 log<sub>10</sub> The median durations of prior exposure to NRTIs were 257 weeks for subjects receiving fosamprenavir/ritonavi

twice daily (79% had greater than or equal to three prior NRTIs) and 210 weeks for subjects receiving lopinavir, inhibitors were 149 weeks for subjects receiving fosamprenavir/ritonavir (4% had greater than or equal to three prior NRTIs). The median durations of prior exposure to protease inhibitors were 149 weeks for subjects receiving fosamprenavir/ritonavir twice daily (49% received greater than or equal to two prior protease inhibitors) and 130 weeks for subjects receiving lopinavir/ritonavir (40% received greater than or equal to two prior protease inhibitors).

The time-averaged changes in plasma HIV-1 RNA from baseline (AAUCMB) at 48 weeks (the endpoint on which the trial was powered) were -1.4  $\log_{10}$  copies per mL for twice-daily fosamprenavir/ritonavir and -1.67  $\log_{10}$  copies per mL for the lopinavir/ritonavir group.

The proportions of subjects who achieved and maintained confirmed HIV-1 RNA less than 400 copies per mL (secondary efficacy endpoint) were 58% with twice-daily fosamprenavir/ritonavir and 61% with lopinavir/ritonavir (95% Cl for the difference: -16.6, 10.1). The proportions of subjects with HIV-1 RNA less than 50 copies per mL with twice-daily fosamprenavir/ritonavir and with lopinavir/ritonavir were 46% and 50%, respectively (95% Cl for the difference: -18.3, 8.9). The proportions of subjects who were virologic failures were 29% with twice-daily fosamprenavir/ritonavir and 27% with lopinavir/ritonavir

The frequency of discontinuations due to adverse events and other reasons, and deaths were similar between treatment arms

Through 48 weeks of therapy, the median increases from baseline in CD4+ cell counts were 81 cells per mm<sup>3</sup> with twice-daily fosamprenavir/ritonavir and 91 cells per mm<sup>3</sup> with lopinavir/ritonavir.

This trial was not large enough to reach a definitive conclusion that fosamprenavir/ritonavir and lopinavir/ritonavir are clinically equivalent.

Once-daily administration of fosamprenavir plus ritonavir is not recommended for protease inhibitor-experienced patients. Through Week 48, 50% and 37% of subjects receiving fosamprenaria 1,400 mg plus ritonavir 200 mg once daily had plasma HIV-1 RNA less than 400 copies per mL and less than 50 copies per mL, respectively.

14.3 Pediatric Trials Three open-label trials in pediatric subjects aged at least 4 weeks to 18 years were conducted. In one trial (APV29005), twice-daily dosing regimes (losamprenavir with or without ritonavir) were evaluated in combination with other antiretroviral agents in pediatric subjects aged 2 to 18 years. In a second trial (APV2002), twice-daily dosing regimens (losamprenavir with ritonavir) were evaluated in combination with other antiretroviral agents in pediatric subjects aged at least 4 weeks to younger than 2 years. A third trial (APV20003) evaluated oncedaily dosing of fosamprenavir with ritonavir; the pharmacokinetic data from this trial did not support a once-daily dosing regimen in any pediatric patient population

APV29005: Fosamprenavir: Twenty (18 therapy-naive and 2 therapy-experienced) pedia ubjects received mprenavir calcium oral suspension without ritonavir twice daily. At Week 24, 65% (13 of 20) achieved HIV-1 RNA less than 400 copies per mL, and the median increase from baseline in CD4+ cell count was 350 cells per

Fosamprenavir Plus Ritonavir: Forty-nine protease inhibitor-naive and 40 protease inhibitor-experienced pediatric subjects received fosamprenavir calcium oral suspension or tablets with ritonavir twice daily. At Week 24, 71% of protease inhibitor-naive (35 of 49) and 55% of protease inhibitor-experienced (22 of 40) subjects achieved HIV-1 RNA less than 400 copies per mL; median increases from baseline in CD4+ cell counts were 184 cells per mm<sup>3</sup> and 150 cells per mm<sup>3</sup> in protease inhibitor-naive and experienced subjects, respectively.

APV20002: Fifty-four pediatric subjects (49 protease inhibitor-naive and 5 protease inhibitor-experienced) Aryzouz: Inity-tour pediatric subjects (49 protease initiotor-nave and 5 protease initiotor-experienceo) received fosamprenavir calcium oral suspension with ritonavir twice daily. At Week 24, 72% of subjects achieved HIV-1 RNA less than 400 copies per mL. The median increases from baseline in CD4+ cell counts were 400 cells per mm<sup>3</sup> in subjects aged at least 4 weeks to younger than 6 months and 278 cells per mm<sup>3</sup> in subjects aged 6 months to 2 years.

### 16 HOW SUPPLIED/STORAGE AND HANDLING

Fosamprenavir Calcium Tablets are available containing 700 mg of fosamprenavir as fosamprenavir calcium. The 700 mg tablets are pink, film-coated, modified capsule shaped, unscored tablets debossed with M on one

- methylergonovine (METHERGINE<sup>®</sup>)
- St. John's wort (Hypericum perforatum)
- Iovastatin (ADVICOR<sup>®</sup>, ALTOPREV<sup>®</sup>)
- simvastatin (ZOCOR<sup>®</sup>, VYTORIN<sup>®</sup>, SIMCOR<sup>®</sup>)
- pimozide (ORAP<sup>®</sup>)
- delavirdine mesylate (RESCRIPTOR<sup>®</sup>)
- sildenafil (REVATIO<sup>®</sup>), for treatment of pulmonary arterial hypertension triazolam (HALCION®)

Serious problems can happen if you or your child take any of the medicines listed above with fosamprenavir calcium tablets.

Do not take fosamprenavir calcium tablets if you are allergic to AGENERASE® (amprenavir), fosamprenavir calcium, or any of the ingredients in fosamprenavir calcium tablets. See the end of this leaflet for a complete list of ingredients in fosamprenavir calcium tablets.

### What should I tell my healthcare provider before taking fosamprenavir calcium tablets?

Before taking fosamprenavir calcium tablets, tell your healthcare provider if you:

- are allergic to medicines that contain sulfa
- have liver problems, including hepatitis B or C
- have kidney problems
- have high blood sugar (diabetes)
- have hemophilia
- have any other medical condition

133

64%

- are pregnant or plan to become pregnant. It is not known if fosamprenavir will harm your unborn baby
- **Pregnancy Registry.** There is a pregnancy registry for women who take antiviral medicines during pregnancy. The purpose of the registry is to collect information about the health of you and your baby. Talk to your healthcare provider about how you can take part in this registry.
- Do not breastfeed. We do not know if fosamprenavir can be passed to your baby in your breast milk and whether it could harm your baby. Also, mothers with HIV-1 should not breastfeed because HIV-1 can be passed to the baby in the breast milk.

### Tell your healthcare provider about all prescription and over-the-counter medicines you take. Also tell your healthcare provider about any vitamins, herbal supplements, and dietary supplements you are taking.

Taking fosamprenavir calcium tablets with certain other medicines may cause serious side effects. Fosamprenavir calcium tablets may affect the way other medicines work, and other medicines may affect how fosamprenavir calcium tablets work. Especially tell your healthcare provider if you take:

quetiapine (SEROQUEL<sup>®</sup>)

- estrogen-based contraceptives (birth control pills). Fosamprenavir calcium tablets may reduce effectiveness of estrogen-based contraceptives. During treatment with fosamprenavir calcium tablets, you should use a different contraceptive method.
- medicines to treat liver problems, including hepatitis C infection.

Know all the medicines that you take. Keep a list of them with you to show healthcare providers and pharmacists when you get a new medicine.

### How should I take fosamprenavir calcium tablets?

### Stay under the care of a healthcare provider while taking fosamprenavir calcium tablets.

- Take fosamprenavir calcium tablets exactly as prescribed by your healthcare provider.
- Do not change your dose or stop taking fosamprenavir calcium tablets without talking with your healthcare provider.
- If your child is taking fosamprenavir, your child's healthcare provider will decide the right dose based on your child's weight.
- You can take fosamprenavir calcium tablets with or without food.
- If you miss a dose of fosamprenavir calcium tablets, take the next dose as soon as possible and then take your next dose at the regular time. Do not double the next dose. If you take too many fosamprenavir calcium tablets, call your healthcare provider or go to the nearest hospital emergency room right away.

### What are the possible side effects of fosamprenavir calcium tablets?

### Fosamprenavir calcium tablets may cause serious side effects including:

Severe skin rash. Fosamprenavir calcium tablets may cause severe or life-threatening skin reactions or rash.

### If you get a rash with any of the following symptoms, stop taking fosamprenavir calcium tablets and call your healthcare provider or get medical help right away:

- hives or sores in your mouth, or your skin blisters and peels
- trouble swallowing or breathing

Concomitant medication is also shown in this column where appropriate.

Ritonavir C<sub>max</sub>, AUC, and C<sub>min</sub> increased by 63%, 45%, and 13%, respectively, compared with historical control

Compared with historical control.

Subjects were receiving fosamprenavir/ritonavir for 10 days prior to the 4-day treatment period with both ketoconazole

Compared with fosamprenavir 700 mg/ritonavir 100 mg b.i.d. for 2 weeks.

Subjects were receiving nevirapine for at least 12 weeks prior to trial.

 $C_{last}$  ( $C_{12 h}$  or  $C_{24 h}$ )

Doses of fosamprenavir and raltegravir were given with food on pharmacokinetic sampling days and without regard to ood all other day Compared with parallel control group.

 $\uparrow$  = Increase;  $\downarrow$  = Decrease;  $\leftrightarrow$  = No change ( $\uparrow$  or  $\downarrow$  less than or equal to 10%), NA = Not applicable

Table 11. Drug Interactions: Pharmacokinetic Parameters for Amprenavir after Administration of

### AGENERASE in the Presence of the Coadministered Drug(s)

| Coadministered Drug(s) and      |                                |    | % Change in Amprenavir Pharmacokinetic<br>Parameters (90% CI) |                   |                   |  |
|---------------------------------|--------------------------------|----|---|-------------------|-------------------|--|
| Dose(s)                         | Dose of AGENERASE <sup>a</sup> | n  | C <sub>max</sub>  | AUC               | C <sub>min</sub>  |  |
| Abacavir 300 mg                 | 900 mg b.i.d.                  | 4  | ⇔ª  | ⇔ª                | ⇔ª                |  |
| b.i.d. for 2 to 3 weeks         | for 2 to 3 weeks               |    |   |                   |                   |  |
| Clarithromycin 500 mg           | 1,200 mg b.i.d.                | 12 | 15  | 18                | 139               |  |
| b.i.d. for 4 days               | for 4 days                     |    | (↑1 to ↑31)   | (↑8 to ↑29)       | (†31 to †47       |  |
| Delavirdine 600 mg              | 600 mg b.i.d.                  | 9  | ↑40 <sup>b</sup>  | ↑130 <sup>b</sup> | ↑125 <sup>b</sup> |  |
| b.i.d. for 10 days              | for 10 days                    |    |   |                   |                   |  |
| Ethinyl estradiol/norethindrone | 1,200 mg b.i.d.                | 10 | ↔   | ↓22               | ↓20               |  |
| 0.035 mg/1 mg for one cycle     | for 28 days                    |    |   | (↓35 to ↓8)       | (↓41 to ↑8)       |  |
| Indinavir 800 mg                | 750 mg or 800 mg t.i.d.        | 9  | 18  | 133               | ↑25               |  |
| t.i.d. for 2 weeks (fasted)     | for 2 weeks (fasted)           |    | (↑13 to ↑58)  | (†2 to †73)       | (↓27 to ↑116      |  |
| Ketoconazole 400 mg             | 1,200 mg                       | 12 | ↓16   | 131               | NA                |  |
| single dose                     | single dose                    |    | (↓25 to ↓6)   | (↑20 to ↑42)      |                   |  |
| Lamivudine 150 mg               | 600 mg                         | 11 | ↔   | ⇔                 | NA                |  |
| single dose                     | single dose                    |    |   |                   |                   |  |
| Methadone 44 mg to 100 mg       | 1,200 mg b.i.d.                | 16 | ↓27°  | ↓30°              | ↓25°              |  |
| q.d. for > 30 days              | for 10 days                    |    |   |                   |                   |  |
| Nelfinavir 750 mg               | 750 mg or 800 mg t.i.d.        | 6  | ↓14   | ⇔                 | 189               |  |
| t.i.d. for 2 weeks (fed)        | for 2 weeks (fed)              |    | (↓38 to ↑20)  |                   | (†52 to †448      |  |
| Rifabutin 300 mg                | 1,200 mg b.i.d.                | 5  | ↔   | ↓15               | ↓15               |  |
| q.d. for 10 days                | for 10 days                    |    |   | (↓28 to 0)        | (↓38 to ↑17       |  |
| Rifampin 300 mg                 | 1,200 mg b.i.d.                | 11 | ↓70   | ↓82               | ↓92               |  |
| q.d. for 4 days                 | for 4 days                     |    | (↓76 to ↓62)  | (↓84 to ↓78)      | (↓95 to ↓89       |  |
| Saquinavir 800 mg               | 750 mg or 800 mg t.i.d.        | 7  | ↓37   | ↓32               | ↓14               |  |
| t.i.d. for 2 weeks (fed)        | for 2 weeks (fed)              |    | (↓54 to ↓14)  | (↓49 to ↓9)       | (↓52 to ↑54       |  |
| Zidovudine 300 mg               | 600 mg                         | 12 | ⇔   | ↑13               | NA                |  |
| single dose                     | single dose                    |    |   | (↓2 to †31)       |                   |  |

Compared with parallel control group.

Median percent change; confidence interval not reported.

Compared with historical data

 $\uparrow$  = Increase; ↓ = Decrease; ⇔ = No change ( $\uparrow$  or ↓ less than 10%); NA = C<sub>min</sub> not calculated for single-dose trial.

### Table 12. Drug Interactions: Pharmacokinetic Parameters for Coadministered Drug in the Presence of

| Coadministered Drug(s)                                      | Dose of  |    |                        | Pharmacokinetic<br>inistered Drug (9 |                     |
|---|--|----|------------------------|--------------------------------------|---------------------|
| and Dose(s)   | Fosamprenavir <sup>a</sup>                                   | n  | C <sub>max</sub>       | AUC                                  | C <sub>min</sub>    |
| Atazanavir 300 mg<br>q.d. for 10 days <sup>b</sup>          | 700 mg b.i.d. plus<br>ritonavir 100 mg b.i.d.<br>for 10 days | 21 | ↓24<br>(↓39 to ↓6)     | ↓22<br>(↓34 to ↓9)                   | ⇔                   |
| Atorvastatin 10 mg<br>q.d. for 4 days                       | 1,400 mg b.i.d.<br>for 2 weeks                               | 16 | 1304<br>(1205 to 1437) | 130<br>(100 to 164)                  | ↓10<br>(↓27 to ↑12) |
| Atorvastatin 10 mg<br>q.d. for 4 days                       | 700 mg b.i.d. plus<br>ritonavir 100 mg b.i.d.<br>for 2 weeks | 16 | ↑184<br>(↑126 to ↑257) | ↑153<br>(↑115 to ↑199)               | ↑73<br>(↑45 to ↑108 |
| Esomeprazole 20 mg<br>q.d. for 2 weeks                      | 1,400 mg b.i.d.<br>for 2 weeks                               | 25 | ↔                      | 155<br>(139 to 173)                  | ND                  |
| Esomeprazole 20 mg<br>q.d. for 2 weeks                      | 700 mg b.i.d. plus<br>ritonavir 100 mg b.i.d.<br>for 2 weeks | 23 | ⇔                      | \$                                   | ND                  |
| Ethinyl estradiol <sup>c</sup> 0.035 mg<br>q.d. for 21 days | 700 mg b.i.d. plus<br>ritonavir 100 mg b.i.d.<br>for 21 days | 25 | ↓28<br>(↓21 to ↓35)    | ↓37<br>(↓30 to ↓42)                  | ND                  |
| Dolutegravir  | 700 mg b.i.d. plus   | 12 | ↓24                    | ↓35                                  | ↓49                 |

12.4 Microhiology

Mechanism of Action: Fosamprenavir is a prodrug that is rapidly hydrolyzed to amprenavir by cellular phosphatases in the gut epithelium as it is absorbed. Amprenavir is an inhibitor of HIV-1 protease. Amprenavir binds to the active site of HIV-1 protease and thereby prevents the processing of viral Gag and Gag-Pol polyprotein precursors, resulting in the formation of immature non-infectious viral particles. Antiviral Activity: Fosamprenavir has little or no antiviral activity in cell culture. The antiviral activity of amprenavir was evaluated against HIV-1 IIIB in both acutely and chronically infected lymphoblastic cell lines

(MT-4, CEM-CCRF, H9) and in peripheral blood 'mphocytes in cell culture. The 50% effective concentration (EC<sub>w</sub>) of amprenavir ranged from 0.012 to 0.08 microM in acutely infected cells and was 0.41 microM in chronically infected cells (1 microM = 0.50 mcg per mL). The median EC<sub>s0</sub> value of amprenavir against HIV-1 isolates from caldes A to G was 0.0095 microM in peripheral blood organicate cells (18MCs). Similarly, the Ec<sub>s0</sub> values for amprenavir against monocytes/macrophage tropic HIV-1 isolates (clade B) ranged from 0.003 to 0.075 microM in monocyte/macrophage cultures. The EC<sub>50</sub> values of amprenavir against HIV-2 isolates grown in PBMCs were higher than those for HIV-1 isolates, and ranged from 0.003 to 0.11 microM. Amprenavir exhibited synergistic anti-HIV-1 activity in combination with the nucleoside reverse transcriptase inhibitors (NNRTIs) abacavir, didanosine, lamivudine, stavudine, tenofovir, and zidovudine; the non-nucleoside reverse transcriptase inhibitors (NNRTIs) delavirdine and efavirenz; and the protease inhibitors atazanavir and saquinavir. Amprenavir exhibited additive anti-HIV-1 activity in combination with the NNRTI nevirapine, the protease inhibitors indinavir, lopinavir, nelfinavir, and ritonavir; and the fusion inhibitor enfuvirtide. These drug combinations have not been adequate studied in human

Resistance: HIV-1 isolates with decreased susceptibility to amprenavir have been selected in cell culture and obtained from subjects treated with fosamprenavir. Genotypic analysis of isolates from treatment-naive subjects failing amprenavir-containing regimens showed substitutions in the HIV-1 protease gene resulting in amino acid substitutions primarily at positions V32I, M46/L, I47V, I50V, I54L/M, and I84V, as well as substitutions in the p7/p1 and p1/p6 Gag and Gag-Pol polyprotein precursor cleavage sites. Some of these amprenavir resistance-associated substitutions have also been detected in HIV-1 isolates from antiretroviral-naive subjects treated with fosamprenavir. Of the 488 antiretroviral-naive subjects treated with fosamprenavir 1,400 mg twice daily or fosamprenavir 1,400 mg plus ritonavir 200 mg once daliy in Trials APV30001 and APV30002, respectively, 61 subjects (29 receiving fosamprenavir and 32 receiving fosamprenavir/ritonavir) with virologic failure (plasma HIV-1 RNA greater than 1,000 copies per mL on two occasions on or after Week 12) were genotyped. Five of the 29 antiretroviral-naive subjects (17%) receiving fosamprenavir without ritonavir in Trial APV30001 had evidence of genotypic resistance to amprenavir: I54L/M (n = 2), I54L + L33F (n = 1), V32I + I47V (n = 1), and M46I + I47V (n = 1). No campenavir resistance associated substitutions were detected in antiretroviral-naive subjects treated with fosamprenavir/ritonavir for 48 weeks in Trial APV30002. However, the M461 and ISOV substitutions were detected in isolates from one virologic failure subject receiving fosamprenavir/ritonavir once daily at Week 160 (HIV-1 RNA greater than 500 copies per mL). Upon retrospective analysis of stored samples using an ultrasensitive assay, these resistant substitutions were traced back to Week 84 (76 weeks prior to clinical virologic

Cross-resistance: Varying degrees of cross-resistance among HIV-1 protease inhibitors have been observed. An association between virologic response at 48 weeks (HIV-1 RNA level less than 400 copies per mL) and protease association between whole to be a second with the HV-1 isolates from proteins participation of the protein and proteins inhibitor-resistance substitutions detected in baseline HV-1 isolates from protease inhibitor-experienced subjects receiving fosamprenavir/ritonavir twice daily (n = 88), or lopinavir/ritonavir twice daily (n = 85) in Trial APV30003 is shown in Table 14. The majority of subjects had previously received either one (47%) or two protease inhibitors (36%), most commonly nelfinavir (57%) and indinavir (53%). Out of 102 subjects with baseline phenotypes receiving twice-daily fosamprenavir/ritonavir, 54% (n = 55) had resistance to at least one protease inhibitor, with 98% (n = 54) of those having resistance to nelfinavir. Out of 97 subjects with baseline phenotypes in the lopinavir. vir arm, 60% (n = 58) had resistance to at least one protease inhibitor, with 97% (n = 56) of those having resistance to nelfinavi

Table 14. Responders at Trial Week 48 by Presence of Baseline Protease Inhibitor Resistance-associated Substitutions

| Protease Inhibitor<br>Resistance-associated<br>Substitutions <sup>b</sup> | Fosamprenavir/Ritonavir b.i.d.<br>(n = 88) |     | Lopinavir/Ritonavir b.i.d.<br>(n = 85) |      |  |
|---|--|-----|--|------|--|
| D30N  | 21/22                                      | 95% | 17/19                                  | 89%  |  |
| N88D/S  | 20/22                                      | 91% | 12/12                                  | 100% |  |
| L90M  | 16/31                                      | 52% | 17/29                                  | 59%  |  |
| M46I/L  | 11/22                                      | 50% | 12/24                                  | 50%  |  |
| V82A/F/T/S  | 2/9  | 22% | 6/17                                   | 35%  |  |
| 154V  | 2/11                                       | 18% | 6/11                                   | 55%  |  |
| 184V  | 1/6  | 17% | 2/5                                    | 40%  |  |

Results should be interpreted with caution because the subgroups were small. Most subjects had greater than one protease inhibitor resistance-associated substitution at baselin

The virologic response based upon baseline phenotype was assessed. Baseline isolates from protease inhibitor-The principle based subjects responding to fosamprenavirritonavir twice daily had a median shift in susceptibility to amprenavir relative to a standard wild-type reference strain of 0.7 (range: 0.1 to 5.4, n = 62), and baseline isolates from individuals failing therapy had a median shift in susceptibility of 1.9 (range: 0.2 to 14, n = 29). Because this was a select patient population, these data do not constitute definitive clinical susceptibility break points. Additional data are needed to determine clinically relevant break points for fosamprenavir.

Isolates from 15 of the 20 subjects receiving twice-daily fosamprenavir/ritonavir up to Week 48 and experiencing virologic failure/ongoing replication were subjected to genotypic analysis. The following amprenavir resistance-associated substitutions were found either alone or in combination: V32I, M46I/L, I47V, I50V, I54L/M, and I84V. Isolates from 4 of the 16 subjects continuing to receive twice-daily fosamprenavir/ritonavir up to Week 96 who experienced virologic failure underwent genotypic analysis. Isolates from two subjects contained amprenavir resistance-associated substitutions: V32I, M46I, and I47V in one isolate and I84V in the other.

## 13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility In long-term carcinogenicity studies, fosamprenavir was administered orally for up to 104 weeks at doses of 250, 400, or 600 mg per kg per day in mice and at doses of 300, 825, or 2,250 mg per kg per day in rats. Exposures at these doses were 0.3- to 0.7-fold (mice) and 0.7- to 1.4-fold (rats) those in humans given 1,400 mg twice daily of fosamprenavir alone, and 0.2- to 0.3-fold (mice) and 0.3- to 0.7-fold (rats) those in humans given 1,400 mg once daily of fosamprenavir plus 200 mg ritonavir once daily. Exposures in the carcinogenicity studies were 0.1- to 0.3-fold (mice) and 0.3- to 0.6-fold (rats) those in humans given 700 mg of fosamprenavir plus 100 mg ritonavir twice daily. There was an increase in hepatocellular adenomas and hepatocellular carcinomas at all doses in male mice and at 600 mg per kg per day in female mice, and in hepatocellular adenomas and thyroid follicular cell adenomas at all doses in male rats, and at 835 mg per kg per day and 2,550 mg per kg per day in female rats. The relevance of the hepatocellular findings in the rodents for humans is uncertain. Repeat-dose studies with fosamprenavir in rats produced effects consistent with enzyme induction, which predisposes rats, but not humans, to thyroid neoplasms. In addition, in rats only there was an increase in interstitial cell hyperplasia at 825 mg per kg per day and 2,250 mg per kg per day, and an increase in uterine endometrial adenocarcinoma at 2,250 mg per kg per day. The incidence of endometrial findings was slightly increased over concurrent controls, but was within background range for female rats. The relevance of the uterine endometrial adenocarcinoma

findings in rats for humans is uncertain. becamprenary was not mutagenic or genotoxic in a battery of *in vitro* and *in vivo* assays. These assays included bacterial reverse mutation (Ames), mouse lymphoma, rat micronucleus, and chromosome aberrations in human lymphocytes

The effects of fosamprenavir on fertility and general reproductive performance were investigated in male (treated for 4 weeks before mating) and female rats (treated for 2 weeks before mating through postpartum day 6). Systemic exposures ( $AUC_{0.24}$ ) to amprenavir in these studies were 3 (males) to 4 (females) times higher than exposures in humans following administration of the MRHD of fosamprenavir alone or similar to those seen in humans following administration of fosamprenavir in combination with ritoravir. Fosamprenavir idid not impair mating or fertility of male or female rats and did not affect the development and maturation of sperm from treated

#### 14 CLINICAL STUDIES 14.1 Therapy-naive Adult Trials

APV30001: A randomized, open-label trial evaluated treatment with fosamprenavir calcium tablets (1,400 mg twice daily) versus nelfinavir (1,250 mg twice daily) in 249 antiretroviral treatment-naive subjects. Both groups of subjects also received abacavir (300 mg twice daily) and lamivudine (150 mg twice daily).

The mean age of the subjects in this trial was 37 years (range: 17 to 70 years), 69% of the subjects were male, 20% were CDC Class C (AIDS), 24% were white, 32% were black, and 44% were lispanic. At baseline, the median CD4+ cell count was 212 cells per mm<sup>3</sup>; 18% of subjects had a CD4+ cell count was 212 cells per mm<sup>3</sup> and 30% were in the range of 50 to less than 200 cells per mm<sup>3</sup>). Baseline median HIV-1 RNA was 4.83 log10 copies per mL (range: 1.69 to 7.41 log10 copies per mL; 45% of subjects had greater than 100,000 copies per mL)

outcomes of randomized treatment are provided in Table 15.

| Outcome<br>(Rebound or discontinuation = failure) | Fosamprenavir<br>1,400 mg b.i.d.<br>(n = 166) | Nelfinavir<br>1,250 mg b.i.d.<br>(n = 83) |
|---|---|---|
| Responder <sup>a</sup>                            | 66% (57%)                                     | 52% (42%)                                 |
| Virologic failure                                 | 19%   | 32%                                       |
| Rebound   | 16%   | 19%                                       |
| Never suppressed through Week 48                  | 3%  | 13%                                       |
| Clinical progression                              | 1%  | 1%  |
| Death   | 0%  | 1%  |
| Discontinued due to adverse reactions             | 4%  | 2%  |
|   |   |   |

| NDC 0378-3520-91<br>bottles of 60 tablets  |  |
|--|--|
| NDC 0378-3520-80<br>bottles of 180 tablets |  |

### Store at 20° to 25°C (68° to 77°F). [See USP Controlled Room Temperature.]

Keep container tightly closed. Dispense in original container with attached prescribing information that contains the Patient Information Leaflet. 17 PATIENT COUNSELING INFORMATION

#### Advise the patient to read the FDA-approved patient labeling (Patient Information).

Drug Interactions: A statement to patients and healthcare providers is included on the product's bottle label: ALERT: Find out about medicines that should NOT be taken with fosamprenavir calcium tablets. Fosamprenavir calcium tablets may interact with many drugs; therefore, advise patients to report to their nealthcare provider the use of any other prescription or nonprescription medication or herbal products, particularly St. John's wort.

Advise patients receiving PDE5 inhibitors that they may be at an increased risk of PDE5 inhibitor-associated adverse events, including hypotension, visual changes, and priapism, and should promptly report any sympto to their healthcare provider

Instruct patients receiving hormonal contraceptives to use alternate contraceptive measures during therapy with fosamprenavir calcium tablets because hormonal levels may be altered, and if used in combination with fosamprenavir calcium tablets and ritonavir, liver enzyme elevations may occur.

Sulfa Allergy: Advise patients to inform their healthcare provider if they have a sulfa allergy. The potential for cross-sensitivity between drugs in the sulfonamide class and fosamprenavir is unknown. Redistribution/Accumulation of Body Fat: Inform patients that redistribution or accumulation of body fat may

long-term health effects of these conditions are not known at this time. Information about HIV-1 Infection: Fosamprenavir calcium tablets are not a cure for HIV-1 infection and natients

may continue to experience illnesses associated with HIV-1 infection, including opportunistic infections. Patients must remain on continuous HIV therapy to control HIV-1 infection and decrease HIV-1-related illness. Patients should be told that sustained decreases in plasma HIV-1 RNA have been associated with a reduced risk of

progression to AIDS and death. Advise patients to remain under the care of a physician when using fosamprenavir calcium tablets

Advise patients to take all HIV medications exactly as prescribed. Advise patients to avoid doing things that can spread HIV-1 infection to others

Advise patients not to re-use or share needles or other injection equipment

Advise patients not to share personal items that can have blood or body fluids on them, like toothbrushes and razor blades. Always practice safer sex by using a latex or polyurethane condom to lower the chance of sexual contact with

semen, vaginal secretions, or blood. Female patients should be advised not to breastfeed because it is not known if fosamprenavir can be passed to

your baby in your breast milk and whether it could harm your baby. Mothers with HIV-1 should not br because HIV-1 can be passed to the baby in the breast milk. Fosamprenavir calcium tablets must always be used in combination with other antiretroviral drugs. Inform

patients not to alter the dose or discontinue therapy without consulting their physician. Physicians should instruct their patients that if they miss a dose, they should take it as soon as possible and then return to their normal schedule. Patients should not double their next dose or take more than the prescribed dose.

## Patient Information Fosamprenavir Calcium Tablets (fos" am pren' a vir kal' see um)

Important: Fosamprenavir calcium tablets can interact with other medicines and cause serious side effects. It is important to know the medicines that should not be taken with fosamprenavir calcium tablets. See the section "Who should not take fosamprenavir calcium tablets?"

Read this Patient Information before you start taking fosamprenavir calcium tablets and each time you get a refill. There may be new information. This information does not take the place of talking with your healthcare provider about your medical condition or treatment

### What are fosamprenavir calcium tablets?

Fosamprenavir calcium tablets are a prescription anti-HIV medicine used with other anti-HIV medicines to treat human immunodeficiency (HIV-1) infections in adults and children 4 weeks of age and older. Fosamprenavir calcium tablets are a type of anti-HIV medicine called a protease inhibitor. HIV-1 is the virus that causes AIDS (Acquired Immune Deficiency Syndrome).

When used with other anti-HIV medicines, fosamprenavir calcium tablets may help: 1. Reduce the amount of HIV-1 in your blood. This is called "viral load".

- 2. Increase the number of white blood cells called CD4 (T) cells, which help fight off
- other infections. Reducing the amount of HIV-1 and increasing the CD4 (T) cell count may improve your immune system. This may reduce your risk of death or infections that can happen when your immune system is weak (opportunistic infections)

It is not known if fosamprenavir is safe and effective in children younger than 4 weeks of age

Fosamprenavir calcium tablets do not cure HIV-1 infection or AIDS. People taking fosamprenavir calcium tablets may develop infections or other conditions associated with HIV-1 infection, including opportunistic infections (for example, pneumonia and herpes virus infections).

You should remain under the care of your healthcare provider when using fosamprenavir calcium tablets.

Avoid doing things that can spread HIV-1 infection to others.

- Do not re-use or share needles or other injection equipment.
- · Do not share personal items that can have blood or body fluids on them, like toothbrushes and razor blades.
- Do not have any kind of sex without protection. Always practice safer sex by using a latex or polyurethane condom to lower the chance of sexual contact with any body fluids such as semen, vaginal secretions, or blood.

Ask your healthcare provider if you have any questions on how to prevent passing HIV to other people

### Who should not take fosamprenavir calcium tablets?

### Do not take fosamprenavir calcium tablets if you take any of the following medicines:

- alfuzosin (UROXATRAL<sup>®</sup>)
- flecainide propafenone (RYTHMOL SR<sup>®</sup>)

swelling of your face, eyes, lips, tongue, or throat

 Liver problems. Your healthcare provider should do blood tests before and during your treatment with fosamprenavir calcium tablets to check your liver function. Some people with liver problems, including hepatitis B or C, may have an increased risk of developing worsening liver problem during treatment with fosamprenavir calcium tablets.

**Diabetes and high blood sugar (hyperglycemia).** Some people who take protease inhibitors, including fosamprenavir calcium tablets, can get high blood sugar. develop diabetes, or your diabetes can get worse. Tell your healthcare provider if you notice an increase in thirst or urinate often while taking fosamprenavir calcium tablets.

Changes in your immune system (Immune Reconstitution Syndrome) can happen when you start taking HIV medicines. Your immune system may get stronger and begin to fight infections that have been hidden in your body for a long time. Call your healthcare provider right away if you start having new symptoms after starting vour HIV medicine.

**Changes in body fat.** These changes can happen in people who take antiretroviral therapy. The changes may include an increased amount of fat in the upper back and neck ("buffalo hump"), breast, and around the back, chest, and stomach area. Loss of fat from the legs, arms, and face may also happen. The exact cause and long-term health effects of these conditions are not known.

Changes in blood tests. Some people have changes in blood tests while taking fosamprenavir calcium tablets. These include increases seen in liver function tests, blood fat levels, and decreases in white blood cells. Your healthcare provider should do regular blood tests before and during your treatment with fosamprenavir calcium tablets

**Increased bleeding problems in some people with hemophilia.** Some people with hemophilia have increased bleeding with protease inhibitors, including fosamprenavir calcium tablets.

Kidney stones. Some people have developed kidney stones while taking fosamprenavir calcium tablets. Tell your healthcare provider right away if you develop signs or symptoms of kidney stones:

- pain in your side
- blood in your urine
- pain when you urinate

### The most common side effects of fosamprenavir calcium tablets in adults include:

 vomiting diarrhea
 headache nausea Vomiting is the most common side effect in children when taking fosamprenavir calcium tablets.

Tell your healthcare provider about any side effect that bothers you or that does not go away.

These are not all the possible side effects of fosamprenavir calcium tablets. For more information, ask your healthcare provider or pharmacist.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

### How should I store fosamprenavir calcium tablets?

Store fosamprenavir calcium tablets at room temperature between 20° to 25°C (68° to 77°F).

Keep the bottle of fosamprenavir calcium tablets tightly closed.

even if they have the same symptoms you have. They may harm them.

For more information, call Mylan Pharmaceuticals Inc. at 1-877-446-3679

Keep fosamprenavir calcium tablets and all medicines out of the reach of children.

Medicines are sometimes prescribed for purposes other than those listed in a Patient

Information leaflet. Do not use fosamprenavir calcium tablets for a condition for which

they were not prescribed. Do not give fosamprenavir calcium tablets to other people,

This leaflet summarizes the most important information about fosamprenavir calcium

tablets. If you would like more information, talk with your healthcare provider. You

can ask your pharmacist or healthcare provider for information about fosamprenavir

Inactive ingredients: colloidal silicon dioxide, croscarmellose sodium, hypromellose,

magnesium stearate, microcrystalline cellulose, povidone, red iron oxide, silicified

This Patient Information has been approved by the U.S. Food and Drug Administration.

**Mylan**<sup>®</sup>

Manufactured for:

Mylan Pharmaceuticals Inc.

Morgantown, WV 26505 U.S.A.

Manufactured by:

### General information about fosamprenavir calcium tablets

calcium tablets that is written for health professionals.

Active ingredient: fosamprenavir calcium

What are the ingredients in fosamprenavir calcium tablets?

microcrystalline cellulose, titanium dioxide and triacetin.

The brand names listed are trademarks of their respective owners.

(1-877-4-INFO-RX).

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