



Abacavir Oral Solution USP



HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use ABACAVIR ORAL SOLUTION safely and effectively. See full prescribing information for ABACAVIR ORAL SOLUTION.

Abacavir Oral Solution, USP
NDA 141-103, Approval: 1998

WARNING: HYPERSENSITIVITY REACTIONS, and LACTIC ACIDOSIS AND SEVERE HEPATOMEGALY

See full prescribing information for complete boxed warning.

Hypersensitivity Reactions

- Serious and sometimes fatal hypersensitivity reactions have occurred with abacavir.
Hypersensitivity to abacavir is a multi organ clinical syndrome.
Patients who carry the HLA B*5701 allele are at high risk for experiencing a hypersensitivity reaction to abacavir.
Abacavir is contraindicated in patients with a prior hypersensitivity reaction to abacavir and in HLA B*5701 positive patients.

- Discontinue abacavir as soon as a hypersensitivity reaction is suspected.
Lactic acidosis and severe hepatomegaly with steatosis, including fatal cases, have been reported with the use of nucleoside analogues.

Lactic Acidosis and Severe Hepatomegaly with Steatosis

- Lactic acidosis and severe hepatomegaly with steatosis, including fatal cases, have been reported with the use of nucleoside analogues.

RECENT MAJOR CHANGES

Boxed Warning 09/2015
Indications and Usage (1) 09/2015
Dosage and Administration, Screening for HLA B*5701 Allele prior to Starting abacavir (2.1) 09/2015
Dosage and Administration, Recommended Dosage for Pediatric Patients (2.3) 03/2015
Contraindications (4) 09/2015
Warnings and Precautions, Hypersensitivity Reactions (5.1) 09/2015
Warnings and Precautions, Related Products that are Not Recommended (5.6) 03/2015

Abacavir oral solution, USP, a nucleoside analogue human immunodeficiency virus (HIV) 1 reverse transcriptase inhibitor, is indicated in combination with other antiretroviral agents for the treatment of HIV 1 infection. (1)

FULL PRESCRIBING INFORMATION: CONTENTS*

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2. DOSAGE AND ADMINISTRATION
3. CLINICAL PHARMACOLOGY
4. CONTRAINDICATIONS
5. WARNINGS AND PRECAUTIONS
6. ADVERSE REACTIONS
7. DRUG INTERACTIONS

FULL PRESCRIBING INFORMATION

WARNING: HYPERSENSITIVITY REACTIONS, and LACTIC ACIDOSIS, AND SEVERE HEPATOMEGALY

Serious and sometimes fatal hypersensitivity reactions, with multiple organ involvement, have occurred with abacavir.

Patients who carry the HLA B*5701 allele are at a higher risk of a hypersensitivity reaction to abacavir; although, hypersensitivity reactions have occurred in patients who do not carry the HLA B*5701 allele.

Abacavir oral solution is contraindicated in patients with a prior hypersensitivity reaction to abacavir and in HLA B*5701 positive patients.

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DOSAGE AND ADMINISTRATION

- Before taking abacavir, screen for the HLA B*5701 allele.
Adults: 600 mg daily, administered as either 300 mg twice daily or 600 mg once daily.
Pediatric Patients Aged 3 Months and Older: Administered either once or twice daily.
Patients with Hepatic Impairment: Mild hepatic impairment: 200 mg twice daily.

DOSAGE FORMS AND STRENGTHS

- Oral Solution: 20 mg per mL (3)

CONTRAINDICATIONS

- Presence of HLA B*5701 allele.
Prior hypersensitivity reaction to Abacavir.
Moderate or severe hepatic impairment.

WARNINGS AND PRECAUTIONS

- Immune reconstitution syndrome and redistribution/accumulation of body fat have been reported in patients treated with combination antiretroviral therapy.
Administration of abacavir oral solution with other products containing abacavir is not recommended.

ADVERSE REACTIONS

- The most commonly reported adverse reactions of at least moderate intensity (incidence greater than or equal to 10%) in adult HIV 1 clinical trials were nausea, headache, malaise and fatigue, nausea and vomiting, and dreams/sleep disorders.
The most commonly reported adverse reactions of at least moderate intensity (incidence greater than or equal to 5%) in pediatric HIV 1 clinical trials were fever and/or chills, nausea and vomiting, skin rashes, and ear/nose/throat infections.

DRUG INTERACTIONS

- Methadone: An increased methadone dose may be required in a small number of patients.

USE IN SPECIFIC POPULATIONS

- Lactation: Breastfeeding not recommended.

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

REVISIONS

Revised: 12/2015

8. USE IN SPECIFIC POPULATIONS

- 1. Pregnancy
2. Lactation
3. Pediatric Use
4. Geriatric Use
5. Patients with Impaired Hepatic Function

10. OVERDOSAGE

12. CLINICAL PHARMACOLOGY

- 12.1 Mechanism of Action
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16. HOW SUPPLIED/STORAGE AND HANDLING

17. PATIENT COUNSELING INFORMATION

*Sections or subsections omitted from the full prescribing information are not listed

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- If a hypersensitivity reaction cannot be ruled out, do not restart abacavir oral solution or any other abacavir containing products because more severe symptoms which may include life threatening hypotension and death can occur within hours.

- If a hypersensitivity reaction is ruled out, patients may restart abacavir. Rarely, patients who have stopped abacavir for reasons other than hypersensitivity have also experienced life threatening reactions within hours of restarting abacavir therapy.

- A Medication Guide and Warning Card that provide information about recognition of hypersensitivity reactions should be dispensed with each new prescription and refill.

5.2. Lactic Acidosis and Severe Hepatomegaly with Steatosis

Lactic acidosis and severe hepatomegaly with steatosis, including fatal cases, have been reported with the use of nucleoside analogues and other antiretrovirals. A majority of these cases have been in women. Obesity and prolonged nucleoside exposure may be risk factors.

Caution should be exercised when administering abacavir to any patient with known risk factors for liver disease; however, cases have also been reported in patients with no known risk factors.

Treatment with abacavir should be suspended in any patient who develops clinical or laboratory findings suggestive of lactic acidosis or pronounced hepatotoxicity (which may include hepatomegaly and steatosis even in the absence of marked transaminase elevations).

Immune reconstitution syndrome has been reported in patients treated with combination antiretroviral therapy, including abacavir. During the initial phase of combination antiretroviral therapy, the use of abacavir within the previous 6 months was correlated with an increased risk of SJS. In a sponsor controlled pooled analysis of clinical trials, no excess risk of SJS was observed in abacavir treated subjects compared with control subjects. In total, the available data from the observational cohort and from clinical trials are inconclusive.

As a precaution, the underlying risk of coronary heart disease should be considered when prescribing antiretroviral therapy, including abacavir, and action taken to minimize all modifiable risk factors (e.g., hypertension, hyperlipidemia, diabetes mellitus, smoking).

Autoimmune disorders (such as Graves' disease, polyomyelitis, 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.

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. The mechanism and long term consequences of these events are currently unknown. A causal relationship has not been established.

5.6. Myocardial Infarction

In a published prospective, observational, epidemiological trial designed to investigate the rate of myocardial infarction (MI) in patients on combination antiretroviral therapy, the use of abacavir within the previous 6 months was correlated with an increased risk of MI. In a sponsor controlled pooled analysis of clinical trials, no excess risk of MI was observed in abacavir treated subjects compared with control subjects. In total, the available data from the observational cohort and from clinical trials are inconclusive.

As a precaution, the underlying risk of coronary heart disease should be considered when prescribing antiretroviral therapy, including abacavir, and action taken to minimize all modifiable risk factors (e.g., hypertension, hyperlipidemia, diabetes mellitus, smoking).

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Table 3. Treatment Emergent (All Causality) Adverse Reactions of at Least Moderate Intensity (Grades 2 to 4, Greater than or Equal to 5% Frequency) in Therapy naive Adults (CNA3005) through 48 Weeks of Treatment

This trial used double blind ascertainment of suspected hypersensitivity reactions. During the blinded portion of the trial, suspected hypersensitivity to abacavir was reported by investigators in 9% of 324 subjects in the abacavir group and 5% of 325 subjects in the zidovudine group.

Ten (3%) cases of suspected drug hypersensitivity were reclassified as not being due to abacavir following unblinding.

Treatment emergent clinical adverse reactions (rated by the investigator as moderate or severe) with a greater than or equal to 5% frequency during therapy with abacavir 300 mg twice daily, lamivudine 150 mg twice daily, and zidovudine 300 mg twice daily compared with didanosine 600 mg 3 times daily, lamivudine 150 mg twice daily, and zidovudine 300 mg twice daily from CNA3005 are listed in Table 3.

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Antiviral Activity

The antiviral activity of abacavir against HIV 1 was assessed in a number of cell lines including primary monocytes/macrophages and peripheral blood mononuclear cells (PBMCs). EC₅₀ values ranged from 3.7 to 5.9 µM (1 microM = 0.28 mg per mL) and 0.07 to 1 microM against HIV 1aa and HIV 1_{nc}, respectively, and was 0.26 ± 0.18 microM against 8 clinical isolates. The median EC₅₀ values of abacavir were 344 nM (range: 14.9 to 676 nM), 16.9 nM (range: 5.9 to 27.9 nM), 6.1 nM (range: 1.5 to 16.7 nM), 356 nM (range: 35 to 356 nM), 105 nM (range: 28.1 to 168 nM), 47.8 nM (range: 5.2 to 200 nM), 51.4 nM (range: 7.1 to 177 nM), and 282 nM (range: 22.4 to 598 nM) against HIV 1 clades A and G and group O viruses (n = 3 except n = 2 for clade B), respectively. The EC50 values against HIV 2 isolates (n = 4), ranged from 0.024 to 0.49 microM. The antiviral activity of abacavir in cell culture was not antagonized when combined with the nucleoside reverse transcriptase inhibitors (NRTIs) didanosine, emtricitabine, lamivudine, stavudine, tenofovir, zalcitabine or zidovudine, the non nucleoside reverse transcriptase inhibitor (NNRTI) nevirapine, or the protease inhibitor (PI) amprenavir. Abacavir (50 microM) used in the treatment of chronic HIV infection had no effect on the anti-HIV 1 activity of abacavir in cell culture.

Resistance

HIV 1 isolates with reduced susceptibility to abacavir have been selected in cell culture. Genotypic analysis of isolates selected in cell culture and recovered from abacavir treated subjects demonstrated that amino acid substitutions K65R, L74V, Y115F, and M184V exhibited cross resistance to didanosine, emtricitabine, lamivudine and tenofovir in cell culture and in subjects. An increasing number of thymidine analogue mutation substitutions (TAMs: M41L, D67N, Y70R, L210W, T215Y/F, K219R/R/Q/W) is associated with a progressive reduction in abacavir susceptibility.

Thirty nine percent (7 of 18) of the isolates from subjects who experienced virologic failure in the abacavir once daily arm had a greater than 2.5 fold mean decrease in abacavir susceptibility with a median fold decrease of 1.3 (range: 0.5 to 11) compared with 29% (5 of 17) of the isolate isolates in the twice daily arm with a median fold decrease of 0.92 (range: 0.7 to 13).

Cross Resistance

Cross resistance has been observed among NRTIs. Isolates containing abacavir resistance associated substitutions, namely K65R, L74V, Y115F, and M184V, exhibited cross resistance to didanosine, emtricitabine, lamivudine and tenofovir in cell culture and in subjects. An increasing number of thymidine analogue mutation substitutions (TAMs: M41L, D67N, Y70R, L210W, T215Y/F, K219R/R/Q/W) is associated with a progressive reduction in abacavir susceptibility.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenicity

Abacavir was administered orally at 3 dosage levels to separate groups of mice and rats in 2 year carcinogenicity studies. Results showed an increase in the incidence of malignant and non malignant tumors. Malignant tumors occurred in the preputial gland of males and the clitoral gland of females of both species, and in the liver of female rats. In addition, non malignant tumors also occurred in the liver and thyroid gland of female rats. These observations were made at systemic exposures in the range of 6 to 32 times the human exposure at the recommended dose of 600 mg.

Mutagenicity

Abacavir induced chromosomal aberrations both in the presence and absence of metabolic activation in an *in vitro* cytogenetic study in human lymphocytes. Abacavir was mutagenic in the absence of metabolic activation, although it was not mutagenic in the presence of metabolic activation in an L5178Y mouse lymphoma assay. Abacavir was clastogenic in males and not clastogenic in females in an *in vivo* mouse bone marrow micronucleus assay.

Abacavir was not mutagenic in bacterial mutagenicity assays in the presence and absence of metabolic activation.

Impairment of Fertility

Abacavir did not affect male or female fertility in rats at a dose associated with exposures approximately 8 times higher than the exposure in humans at the dose of 600 mg.

13.2 Animal Toxicology and/or Pharmacology

Myocardial degeneration was found in mice and rats following administration of abacavir for 2 years. The clinical relevance of this finding has not been determined.

14 CLINICAL STUDIES

14.1 Adult Trials

Therapy naïve Adults

CNA3004 was a multicenter, double blind, controlled trial in which 619 HIV 1 infected, therapy naïve adults were randomized and received either abacavir (300 mg twice daily), lamivudine (150 mg twice daily), and efavirenz (600 mg once daily); or zidovudine (300 mg twice daily), lamivudine (150 mg twice daily), and efavirenz (600 mg once daily). The duration of double blind treatment was at least 48 weeks. Trial participants were male (81%), white (51%), Black (21%), and Hispanic (26%). The median age was 35 years; the median pretreatment CD4+ cell count was 264 cells per mm³, and median plasma HIV 1 RNA was 4.79 log₁₀ copies per mL. The outcomes of randomized treatment are provided in Table 7.

Table 7. Outcomes of Randomized Treatment through Week 48 (CNA3004)

Outcome	Abacavir plus Lamivudine plus Efavirenz (n = 324)	Zidovudine plus Lamivudine plus Efavirenz (n = 325)
Responder ^a	69% (73%)	69% (71%)
Virologic failures ^b	6%	4%
Discontinued due to adverse reactions	4%	16%
Discontinued due to other reasons ^c	10%	11%

^a Subjects achieved and maintained confirmed HIV 1 RNA less than or equal to 50 copies per mL (less than 400 copies per mL) through Week 48 (Roche AMPLICOR Ultrasensitive HIV 1 MONITOR[®] standard test 1 PCR).

^b Includes viral rebound, insufficient viral response according to the investigator, and failure to achieve confirmed less than or equal to 50 copies per mL by Week 48.

^c Includes consent withdrawn, lost to follow up, protocol violations, those with missing data, clinical progression, and other.

After 48 weeks of therapy, the median CD4+ cell count increases from baseline were 200 cells per mm³ in the group receiving abacavir and 155 cells per mm³ in the zidovudine group. Through Week 48, 8 subjects (2%) in the group receiving abacavir (5 CDC classification C events and 3 deaths) and 5 subjects (2%) in the zidovudine arm (3 CDC classification C events and 2 deaths) experienced clinical disease progression.

CNA3005 was a multicenter, double blind, controlled trial in which 562 HIV 1 infected, therapy naïve adults were randomized to receive either abacavir (300 mg twice daily) plus COMBIVIR[®] (lamivudine 150 mg/zidovudine 300 mg twice daily), or indinavir (800 mg 3 times a day) plus COMBIVIR[®]. The trial was stratified at randomization by gender, plasma HIV 1 RNA 10,000 to 100,000 copies per mL, and plasma HIV 1 RNA greater than 100,000 copies per mL. Trial participants were male (87%), white (73%), Black (15%), and Hispanic (9%). At baseline the median age was 36 years, the median pretreatment CD4+ cell count was 360 cells per mm³, and median baseline plasma HIV 1 RNA was 4.8 log₁₀ copies per mL. Proportions of subjects with plasma HIV 1 RNA less than 400 copies per mL, using Roche AMPLICOR HIV 1 MONITOR[®] Test[®] through 48 weeks of treatment are summarized in Table 8.

Table 8. Outcomes of Randomized Treatment through Week 48 (CNA3005)

Outcome	Abacavir plus Lamivudine/Zidovudine (n = 282)	Indinavir plus Lamivudine/Zidovudine (n = 282)
Responder ^a	49%	50%
Virologic failure ^b	31%	28%
Discontinued due to adverse reactions	10%	12%
Discontinued due to other reasons ^c	11%	10%

^a Subjects achieved and maintained confirmed HIV 1 RNA less than 400 copies per mL.

^b Includes viral rebound and failure to achieve confirmed less than 400 copies per mL by Week 48.

^c Includes consent withdrawn, lost to follow up, protocol violations, those with missing data, clinical progression, and other.

Treatment response by plasma HIV 1 RNA strata is shown in Table 9.

Table 9. Proportions of Responders through Week 48 by Screening Plasma HIV 1 RNA Levels (CNA3005)

Screening HIV 1 RNA (copies/mL)	Abacavir plus Lamivudine/Zidovudine (n = 282)		Indinavir plus Lamivudine/Zidovudine (n = 282)	
	<400 copies/mL	n	<400 copies/mL	n
≤10,000	50%	166	48%	165
>10,000	48%	96	52%	100

In subjects with baseline viral load greater than 100,000 copies per mL, percentages of subjects with HIV 1 RNA levels less than 50 copies per mL were 31% in the group receiving abacavir versus 45% in the group receiving indinavir.

Through Week 48, an overall mean increase in CD4+ cell count of about 150 cells per mm³ was observed in both treatment arms. Through Week 48, 9 subjects (3.4%) in the group receiving abacavir sulfate (5 CDC classification C events and 3 deaths) and 5 subjects (1.8%) in the group receiving indinavir (3 CDC classification C events and 1 death) experienced clinical disease progression.

CNA30021 was an international, multicenter, double blind, controlled trial in which 770 HIV 1 infected, therapy naïve adults were randomized and received either abacavir 600 mg once daily or abacavir 300 mg twice daily, both in combination with lamivudine 300 mg once daily and efavirenz 600 mg once daily. The double blind treatment duration was at least 48 weeks. Trial participants had a mean age of 37 years; were male (81%), white (54%), Black (27%), and American Hispanic (15%). The median baseline CD4+ cell count was 262 cells per mm³ (range 21 to 918 cells per mm³) and the median baseline plasma HIV 1 RNA was 4.89 log₁₀ copies per mL (range 2.60 to 6.99 log₁₀ copies per mL). The outcomes of randomized treatment are provided in Table 10.

Table 10. Outcomes of Randomized Treatment through Week 48 (CNA30021)

Outcome	Abacavir 600 mg q.d. plus EPVIR [®] plus Efavirenz (n = 384)	Abacavir 300 mg b.i.d. plus EPVIR plus Efavirenz (n = 386)
Responder ^a	64% (71%)	65% (72%)
Virologic failure ^b	11% (5%)	11% (5%)
Discontinued due to adverse reactions	13%	11%
Discontinued due to other reasons ^c	11%	13%

^a Subjects achieved and maintained confirmed HIV 1 RNA less than 50 copies per mL (less than 400 copies per mL) through Week 48 (Roche AMPLICOR Ultrasensitive HIV 1 MONITOR[®] standard test version 1).

^b Includes viral rebound, failure to achieve confirmed less than 50 copies per mL (less than 400 copies per mL) by Week 48, and insufficient viral response.

^c Includes consent withdrawn, lost to follow up, protocol violations, clinical progression, and other.

After 48 weeks of therapy, the median CD4+ cell count increases from baseline were 188 cells per mm³ in the group receiving abacavir 600 mg once daily and 202 cells per mm³ in the group receiving abacavir 300 mg twice daily. Through Week 48, 6 subjects (2%) in the group receiving abacavir (5 CDC classification C events and 2 deaths) and 10 subjects (3%) in the group receiving abacavir 300 mg twice daily (7 CDC classification C events and 3 deaths) experienced clinical disease progression. None of the deaths were attributed to trial medications.

14.2 Pediatric Trials

Therapy experienced Pediatric Subjects

CNA3006 was a randomized, double blind trial comparing abacavir 8 mg per kg twice daily plus lamivudine 4 mg per kg twice daily plus zidovudine 160 mg per kg twice daily versus lamivudine 4 mg per kg twice daily plus zidovudine 160 mg per kg twice daily. Two hundred and five therapy experienced pediatric subjects were enrolled: female (56%), white (17%), Black (59%), Hispanic (9%), median age of 5.4 years, baseline CD4+ cell percent greater than 15% (median = 27%), and median baseline plasma HIV 1 RNA of 4.6 log₁₀ copies/mL. Eighty percent of subjects responding based on therapy with zidovudine and lamivudine, respectively most often in combination. The median duration of prior nucleoside analogue therapy was 2 years. At 16 weeks the proportion of subjects responding based on plasma HIV 1 RNA less than or equal to 400 copies per mL was significantly higher in subjects receiving abacavir plus lamivudine plus zidovudine compared with subjects receiving lamivudine plus zidovudine, 13% versus 2%, respectively. Median plasma HIV 1 RNA

changes from baseline were 0.53 log₁₀ copies/mL in the group receiving abacavir plus lamivudine plus zidovudine compared with 0.21 log₁₀ copies per mL in the group receiving lamivudine plus zidovudine. Median CD4+ cell count increases from baseline were 80 cells per mm³ in the group receiving abacavir plus lamivudine plus zidovudine and 9 cells per mm³ in the group receiving lamivudine plus zidovudine.

Once Daily Dosing

ARROW (CO-105677) was a 5 year randomized, multicenter trial which evaluated multiple aspects of clinical management of HIV 1 infection in pediatric subjects. HIV 1 infected, treatment naïve subjects aged 3 months to 17 years were enrolled and treated with a first line regimen containing abacavir and lamivudine, dosed twice daily according to World Health Organization recommendations. After a minimum of 36 weeks of treatment, subjects were given the option to participate in Randomization 3 or the ARROW trial, comparing the safety and efficacy of once daily dosing with twice daily dosing of abacavir and lamivudine, in combination with a third antiretroviral drug, for an additional 96 weeks. Of the 1,206 original ARROW subjects, 669 participated in Randomization 3. Virologic suppression was not a requirement for participation at baseline for Randomization 3 (following a minimum of 36 weeks of twice daily treatment). 75% of subjects in the twice daily cohort were virologically suppressed compared with 71% of subjects in the once daily cohort.

The proportions of subjects with HIV 1 RNA less than 80 copies per mL through 96 weeks are shown in Table 11. The differences between virologic responses in the two treatment arms were comparable across baseline characteristics for gender and age.

Table 11. Virologic Outcome of Randomized Treatment at Week 96^a (ARROW Randomization 3)

Outcome	Abacavir plus Lamivudine Twice Daily Dosing (n = 333)	Abacavir plus Lamivudine Once Daily Dosing (n = 336)
HIV 1 RNA <80 copies/mL ^b	70%	67%
HIV 1 RNA <360 copies/mL ^b	28%	31%
No virologic data		
Discontinued due to adverse event or death	1%	<1%
Discontinued study for other reasons ^c	0%	<1%
Missing data during window but on study	1%	1%

^a Analyses were based on the last observed viral load data within the Week 96 window.

^b Predicted difference (95% CI) of response rate is 4.5% (11% to 2%) at Week 96.

^c Includes subjects who discontinued due to lack or loss of efficacy or for reasons other than an adverse event or death, and had a viral load value of greater than or equal to 80 copies per mL, or subjects who had a switch in background regimen that was not permitted by the protocol.

^d Other includes reasons such as withdrawal consent, loss to follow up, etc. and the last available HIV 1 RNA less than 80 copies per mL, or missing.

16 HOW SUPPLIED/STORAGE AND HANDLING

Abacavir oral solution USP is a clear, yellowish, strawberry banana flavored liquid filled in 250 cc HDPE opaque bottles, each mL of the solution contains abacavir sulfate USP equivalent to 20 mg of abacavir. They are supplied in:

Bottles of 240 mL with Expanded PE Wax (NDC 68554 3062 0).

Bottles of 240 mL with Induction Sealing FSE Wax (NDC 68554 3062 1).

This product does not require reconstruction.

Store at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature]. DO NOT FREEZE. May be refrigerated.

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA approved patient labeling (Medication Guide).

Hypersensitivity Reactions

Inform patients:

- that a Medication Guide and Warning Card summarizing the symptoms of the abacavir hypersensitivity reaction and other product information will be dispensed by the pharmacist with each new prescription and refill of abacavir oral solution, and instruct the patient to read the Medication Guide and Warning Card every time to obtain any new information that may be present about abacavir. The complete text of the Medication Guide is reprinted at the end of this document.
- to carry the Warning Card with them.
- how to identify a hypersensitivity reaction (see *Warnings and Precautions* (5.1), *Medication Guide*).
- that if they develop symptoms consistent with a hypersensitivity reaction they should call their healthcare provider right away to determine if they should stop taking abacavir oral solution.
- that a hypersensitivity reaction can worsen and lead to hospitalization or death if abacavir is not immediately discontinued.
- that in one trial, more severe hypersensitivity reactions were seen when abacavir was dosed 600 mg once daily.
- to not restart abacavir oral solution or any other abacavir containing product following a hypersensitivity reaction because more severe symptoms can occur within hours and may include life threatening hypotension and death.
- that a hypersensitivity reaction is usually reversible if it is detected promptly and abacavir is stopped right away.
- that if they have interrupted abacavir for reasons other than symptoms of hypersensitivity (for example, those who have an interruption in drug supply), a serious or fatal hypersensitivity reaction may occur with reintroduction of abacavir.
- to not restart abacavir oral solution or any other abacavir containing product without medical consultation and only if medical care can be readily accessed by the patient or others.

Related Products that are Not Recommended

Inform patients that they should not take abacavir with EPZICOM[®], TRIUMEQ[®], or TRIZIVIR[®].

Lactic Acidosis/Hepatomegaly

Inform patients that some HIV medicines, including abacavir, can cause a rare, but serious condition called lactic acidosis with liver enlargement (hepatomegaly) (see *Boxed Warning, Warnings and Precautions* (5.2)).

Immune Reconstitution Syndrome

In some patients with advanced HIV infection, signs and symptoms of inflammation from previous infections may occur soon after anti-HIV treatment is started. It is believed that these symptoms are due to an improvement in the body's immune response, enabling the body to fight infections that may have been present with no obvious symptoms. Advise patients to inform their healthcare provider immediately of any symptoms of infection (see *Warnings and Precautions* (5.3)).

Redistribution/Accumulation of Body Fat

Inform patients that redistribution or accumulation of body fat may occur in patients receiving antiretroviral therapy and that the cause and long term health effects of these conditions are not known at this time. (see *Warnings and Precautions* (5.4)).

Information About HIV 1 Infection

Inform patients that abacavir is not a cure for HIV 1 infection and patients 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 related illness. Inform patients 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 abacavir.

Advise patients to take all HIV medications exactly as prescribed. Instruct patients that if they miss a dose, they should take it as soon as they remember. If they do not remember and it is time for the next dose, they should be instructed to skip the missed dose and go back to the regular schedule. Patients should not double their next dose or take more than the prescribed dose.

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.

Advise patients to 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. Mothers with HIV 1 should not breastfeed because HIV 1 can be passed to the baby in the breast milk.

Instruct patients to read the Medication Guide before starting abacavir and to reread it each time the prescription is renewed. Instruct patients to inform their physician or pharmacist if they develop any unusual symptom, or if any known symptom persists or worsens.

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MEDICATION GUIDE

Abacavir oral solution USP (ah-BAH-kah-veer)

What is the most important information I should know about abacavir oral solution?

Abacavir can cause serious side effects, including:

- Serious allergic reaction (hypersensitivity reaction)** that can cause death have happened with abacavir oral solution and other abacavir containing products. Your risk of this allergic reaction is much higher if you have a gene variation called HLA B*57:01. Your healthcare provider can determine with a blood test if you have this gene variation.

If you get a symptom from 2 or more of the following groups while taking abacavir oral solution, call your healthcare provider right away to find out if you should stop taking abacavir oral solution.

Group 1	Fever	Symptoms)
Group 2	Rash	
Group 3	Nausea, vomiting, diarrhea, abdominal (stomach area) pain	
Group 4	Generally ill feeling, extreme tiredness, or achiness	
Group 5	Shortness of breath, cough, sore throat	

A list of these symptoms is on the Warning Card your pharmacist gives you. Carry this Warning Card with you at all times.

If you stop abacavir oral solution because of an allergic reaction, never take abacavir oral solution or any other abacavir containing medicine (EPZICOM, TRIUMEQ and TRIZIVIR) again.

If you take abacavir oral solution or any other abacavir containing medicine again after you have had an allergic reaction, within hours you may get life threatening symptoms that may include very low blood pressure or death.

If you stop abacavir oral solution for any other reason, even for a few days, and you are not allergic to abacavir, talk with your healthcare provider before taking it again. Taking abacavir oral solution again can cause a serious allergic or life threatening reaction, even if you never had an allergic reaction to it before.

If your healthcare provider tells you that you can take abacavir oral solution again, start taking it again as around medical help or people who can call a healthcare provider if you need one.

Build up of acid in your blood (lactic acidosis). Lactic acidosis can happen in some people who take abacavir oral solution. Lactic acidosis is a serious medical emergency that can cause death. Call your healthcare provider right away if you get any of the following symptoms that could be signs of lactic acidosis:

- feel very weak or tired
- feel cold, especially in your arms and legs
- feel dizzy or light headed
- feel itchy or tight headed
- trouble breathing
- have a fast or irregular heartbeat

stomach pain with nausea and vomiting

Serious liver problems can happen in people who take abacavir. In some cases, these serious liver problems can lead to death. Your liver may become large (hepatomegaly) and you may develop fat in your liver (steatosis) when you take abacavir. Call your healthcare provider right away if you have any of the following signs of liver problems:

- your skin or the white part of your eyes turns yellow (jaundice)
- loss of appetite for several days or longer
- dark or "tea colored" urine turns
- nausea
- light colored stools (bowel movements)
- pain, aching, or tenderness on the right side of your stomach area

You may be more likely to get lactic acidosis or serious liver problems if you are female, very overweight (obese), or have been taking nucleoside analogue medicines for a long time.

What is abacavir oral solution? Abacavir oral solution is a prescription HIV 1 (human Immunodeficiency Virus type 1) medicine used with other antiretroviral medicines to treat HIV 1 infection. HIV 1 is the virus that causes Acquired Immune Deficiency Syndrome (AIDS).

The safety and effectiveness of abacavir has not been established in children under 3 months of age.

When used with other antiretroviral medicines to treat HIV 1 infection, abacavir oral solution may help:

- reduce the amount of HIV 1 in your blood. This is called "viral load."
- increase the number of CD4+ (T) cells in your blood, that help fight off other infections.

Reduce the amount of HIV 1 and increasing the CD4+ (T) cells in your blood may help improve your immune system. This may reduce your risk of death or getting infections that can happen when your immune system is weak (opportunistic infections).

Abacavir does not cure HIV 1 infection or AIDS. You must keep taking HIV 1 medicines to control HIV 1 infection and decrease HIV related illnesses.

Do not share or re-use 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 about how to prevent passing HIV to other people.

Who should not take abacavir oral solution? Do not take abacavir oral solution if you:

- have a certain type of gene variation called the HLA B*57:01 allele. Your healthcare provider will test you for this before prescribing treatment with abacavir.
- are allergic to abacavir or any of the ingredients in abacavir oral solution. See the end of this Medication Guide for a complete list of ingredients in abacavir oral solution.
- have liver problems.

What should I tell my healthcare provider before taking abacavir oral solution? Before you take abacavir oral solution, tell your healthcare provider if you:

- have been tested and know whether or not you have a particular gene variation called HLA B*57:01.
- have or have had liver problems, including hepatitis B or C virus infection.
- have hepatitis B virus infection or have other liver problems.
- have heart problems, smoke, or have diseases that increase your risk of heart disease such as high blood pressure, high cholesterol, or diabetes.
- drink alcohol or take medicines that contain alcohol.
- are pregnant or plan to become pregnant. Taking abacavir during pregnancy has not been associated with increased risk of birth defects. Talk to your healthcare provider if you are pregnant or plan to become pregnant.

Pregnancy Registry. There is a pregnancy registry for women who take antiretroviral medicines during pregnancy. The purpose of this 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 if you take abacavir. Do not breastfeed if you have HIV 1 because of the risk of passing HIV 1 to your baby.

Tell your healthcare provider about all the medicines you take, including prescription and over the counter medicines, vitamins, and herbal supplements.