

## HIGHLIGHTS OF PRESCRIBING INFORMATION

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

**EVOTAZ® (atazanavir and cobicistat) tablet, for oral use**  
**Initial U.S. Approval: 2015**

### INDICATIONS AND USAGE

EVOTAZ is a two-drug combination of atazanavir, a human immunodeficiency virus (HIV-1) protease inhibitor, and cobicistat, a CYP3A inhibitor indicated for use in combination with other antiretroviral agents for the treatment of HIV-1 infection in adults and pediatric patients weighing at least 35 kg. (1)

#### Limitations of Use

Use of EVOTAZ in treatment-experienced patients should be guided by the number of baseline primary protease inhibitor resistance substitutions. (1)

### DOSAGE AND ADMINISTRATION

- Pretreatment testing:** Renal laboratory testing should be performed in all patients prior to initiation of EVOTAZ and continued during treatment with EVOTAZ. Hepatic testing should be performed in patients with underlying liver disease prior to initiation of EVOTAZ and continued during treatment with EVOTAZ. (2.1)
- Recommended dosage:** One tablet once daily, taken orally with food in adults and pediatric patients weighing at least 35 kg. (2.2)
- Renal impairment:** EVOTAZ is not recommended for use in treatment-experienced patients with end-stage renal disease managed with hemodialysis. (2.3, 8.6)
- Hepatic impairment:** EVOTAZ is not recommended in patients with any degree of hepatic impairment. (2.4, 8.7)

### DOSAGE FORMS AND STRENGTHS

- Tablets: 300 mg of atazanavir and 150 mg of cobicistat. (3)

### CONTRAINDICATIONS

- EVOTAZ is contraindicated in patients with previously demonstrated hypersensitivity (e.g., Stevens-Johnson syndrome, erythema multiforme, or toxic skin eruptions) to any of the components of this product. (4)
- Coadministration with certain drugs for which altered plasma concentrations are associated with serious and/or life-threatening events or loss of therapeutic effect. (4)

### WARNINGS AND PRECAUTIONS

- Cardiac conduction abnormalities:** PR interval prolongation may occur in some patients. Consider ECG monitoring in patients with preexisting conduction system disease or when administered with other drugs that may prolong the PR interval. (5.1, 6, 7.3, 12.2, 17)
- Severe skin reactions:** Discontinue if severe rash develops. (5.2, 6.1, 17)
- Assess creatinine clearance (CLcr) before initiating treatment. Consider alternative medications that do not require dosage adjustments in patients with renal impairment. (5.3)
- When cobicistat, a component of EVOTAZ, is used in combination with a tenofovir disoproxil fumarate (tenofovir DF)-containing regimen, cases of acute renal failure and Fanconi syndrome have been reported. (5.4)

- When used with tenofovir DF, assess urine glucose and urine protein at baseline and monitor CLcr, urine glucose, and urine protein. Monitor serum phosphorus in patients with or at risk for renal impairment. Coadministration with tenofovir DF is not recommended in patients with CLcr below 70 mL/min or in patients also receiving a nephrotoxic agent. (5.4)
- Chronic kidney disease** has been reported during postmarketing surveillance in patients with HIV-1 infection treated with atazanavir, with or without ritonavir. Consider alternatives in patients at high risk for renal disease or with preexisting renal disease. Monitor renal laboratory tests prior to therapy and during treatment with EVOTAZ. Consider discontinuation of EVOTAZ in patients with progressive renal disease. (5.5)
- Nephrolithiasis and cholelithiasis** have been reported. Consider temporary interruption or discontinuation. (5.6, 6)
- Hepatotoxicity:** Patients with hepatitis B or C coinfection are at risk of increased transaminases or hepatic decompensation. Monitor hepatic laboratory tests prior to therapy and during treatment. (2.5, 5.7, 8.7)
- Antiretrovirals that are not recommended:** EVOTAZ is not recommended for use with ritonavir or products containing ritonavir, or in combination with other antiretroviral drugs that require CYP3A inhibition to achieve adequate exposures (e.g., other protease inhibitors and elvitegravir). (5.9)
- Hyperbilirubinemia:** Most patients experience asymptomatic increases in indirect bilirubin, which is reversible upon discontinuation. If a concomitant transaminase increase occurs, evaluate for alternative etiologies. (5.10, 6)
- Patients receiving EVOTAZ may develop immune reconstitution syndrome (5.11), new onset or exacerbations of diabetes mellitus/hyperglycemia (5.12, 6), and redistribution/accumulation of body fat (5.13).
- Hemophilia:** Spontaneous bleeding may occur and additional factor VIII may be required. (5.14)

### ADVERSE REACTIONS

Most common adverse reactions seen with atazanavir coadministered with cobicistat (greater than 5%, Grades 2-4) are jaundice and rash. (6.1)

**To report SUSPECTED ADVERSE REACTIONS, contact Bristol-Myers Squibb at 1-800-721-5072 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).**

### DRUG INTERACTIONS

Coadministration of EVOTAZ can alter the concentration of other drugs and other drugs may alter the concentration of EVOTAZ, which may result in known or potentially significant drug interactions. The potential drug-drug interactions must be considered prior to and during therapy. (4, 7, 12.3)

### USE IN SPECIFIC POPULATIONS

- Pregnancy:** EVOTAZ is not recommended during pregnancy and should not be initiated in pregnant individuals; use of an alternative regimen is recommended. (2.5, 8.1)
- Lactation:** Breastfeeding is not recommended due to the potential for postnatal HIV transmission. (8.2)
- Pediatrics:** EVOTAZ is not recommended for patients weighing less than 35 kg. (8.4)

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

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## FULL PRESCRIBING INFORMATION

### 1 INDICATIONS AND USAGE

#### 1.1 Indications

EVOTAZ<sup>®</sup> is indicated in combination with other antiretroviral agents for the treatment of human immunodeficiency virus (HIV-1) infection in the following populations [see *Dosage and Administration* (2.2, 2.3)]:

- Adult patients
- Pediatric patients weighing at least 35 kg.

#### 1.2 Limitations of Use

Use of EVOTAZ in treatment-experienced patients should be guided by the number of baseline primary protease inhibitor resistance substitutions [see *Clinical Pharmacology* (12.4)].

### 2 DOSAGE AND ADMINISTRATION

#### 2.1 Laboratory Testing Prior to Initiation and During Treatment with EVOTAZ

##### Renal Testing

Renal laboratory testing should be performed in all patients prior to initiation of EVOTAZ and continued during treatment with EVOTAZ. Renal laboratory testing should include estimated creatinine clearance, serum creatinine, and urinalysis with microscopic examination [see *Warnings and Precautions* (5.5, 5.6)]. Cobicistat decreases estimated creatinine clearance due to inhibition of tubular secretion of creatinine without affecting actual renal glomerular function [see *Warnings and Precautions* (5.3)].

When coadministering EVOTAZ with tenofovir disoproxil fumarate (tenofovir DF), assess estimated creatinine clearance, urine glucose, and urine protein at baseline and routinely monitor during treatment. In patients with chronic kidney disease, also monitor serum phosphorus [see *Warnings and Precautions* (5.4)].

##### Hepatic Testing

Hepatic laboratory testing should be performed in patients with underlying liver disease prior to initiation of EVOTAZ and continued during treatment with EVOTAZ [see *Warnings and Precautions* (5.7)].

#### 2.2 Recommended Dosage

EVOTAZ is a fixed-dose tablet containing 300 mg of atazanavir and 150 mg of cobicistat. The recommended dosage of EVOTAZ is one tablet taken once daily orally with food [see *Clinical Pharmacology* (12.3)] in HIV-1-infected treatment-naïve and treatment-experienced:

- Adult patients
- Pediatric patients weighing at least 35 kg

Administer EVOTAZ in conjunction with other antiretroviral agents [see *Drug Interactions (7)*]. Dose separation may be required when taken with H<sub>2</sub>-receptor antagonists or proton-pump inhibitors [see *Drug Interactions (7.2, 7.3)*].

### **2.3 Dosage in Patients with Renal Impairment**

EVOTAZ is not recommended in treatment-experienced patients with HIV-1 infection who have end-stage renal disease managed with hemodialysis [see *Use in Specific Populations (8.6)* and *Clinical Pharmacology (12.3)*].

EVOTAZ coadministered with tenofovir DF is not recommended in patients with estimated creatinine clearance below 70 mL/min. Coadministration of EVOTAZ and tenofovir DF in combination with concomitant or recent use of a nephrotoxic agent is not recommended [see *Warnings and Precautions (5.4)* and *Adverse Reactions (6.1)*].

### **2.4 Not Recommended in Patients with Any Degree of Hepatic Impairment**

EVOTAZ is not recommended in patients with any degree of hepatic impairment [see *Warnings and Precautions (5.7)*, *Use in Specific Populations (8.7)*, and *Clinical Pharmacology (12.3)*].

### **2.5 Not Recommended During Pregnancy**

EVOTAZ is not recommended for use during pregnancy and should not be initiated in pregnant individuals due to substantially lower exposures of cobicistat and consequently, lower exposures of atazanavir, during the second and third trimesters. An alternative regimen is recommended for individuals who become pregnant during therapy with EVOTAZ [see *Use in Specific Populations (8.1)*].

## **3 DOSAGE FORMS AND STRENGTHS**

EVOTAZ tablets contain 342 mg atazanavir sulfate, equivalent to 300 mg of atazanavir, and 150 mg of cobicistat and are oval, biconvex, pink, film-coated, and debossed with “3641” on one side and plain on the other side.

## **4 CONTRAINDICATIONS**

The concomitant use of EVOTAZ and the following drugs in Table 1, are contraindicated due to the potential for serious and/or life-threatening events or loss of therapeutic effect [see *Warnings and Precautions (5.8, 5.9)*, *Drug Interactions (7)*, and *Clinical Pharmacology (12.3)*].

EVOTAZ is contraindicated:

- in patients with previously demonstrated clinically significant hypersensitivity (e.g., Stevens-Johnson syndrome, erythema multiforme, or toxic skin eruptions) to any of the components of this product [see *Warnings and Precautions (5.2)*].
- when coadministered with drugs that are highly dependent on CYP3A or UGT1A1 for clearance, and for which elevated plasma concentrations of the interacting drugs are associated with serious and/or life-threatening events (see Table 5).
- when coadministered with drugs that strongly induce CYP3A and may lead to lower exposure and loss of efficacy of EVOTAZ (see Table 1).

- For additional information, including clinical comments and potential impact on exposure levels associated with drugs that are contraindicated with EVOTAZ, refer to Table 5 [see *Drug Interactions (7.3)*].

**Table 1: Drugs Contraindicated with EVOTAZ**

Drug Class	Drugs within class that are contraindicated with EVOTAZ
Alpha 1-adrenoreceptor antagonist	alfuzosin
Antianginal	ranolazine
Antiarrhythmics	dronedarone
Anticonvulsants	carbamazepine, phenobarbital, phenytoin
Antigout	colchicine (when used in patients with hepatic and/or renal impairment)
Antimycobacterials	rifampin
Antineoplastics	irinotecan
Antipsychotics	lurasidone, pimozone
Ergot Derivatives	dihydroergotamine, ergotamine, methylergonovine
GI Motility Agent	cisapride
Hepatitis C Direct-Acting Antivirals	elbasvir/grazoprevir; glecaprevir/pibrentasvir
Herbal Products	St. John's wort ( <i>Hypericum perforatum</i> )
Hormonal Contraceptives	drospirenone/ethinyl estradiol
Lipid-modifying Agents	lomitapide, lovastatin, simvastatin
Non-nucleoside Reverse Transcriptase Inhibitor	nevirapine
Phosphodiesterase-5 (PDE-5) Inhibitor	sildenafil <sup>a</sup> when administered for the treatment of pulmonary arterial hypertension
Protease Inhibitors	indinavir
Sedative/hypnotics	triazolam, orally administered midazolam <sup>b</sup>

<sup>a</sup> Refer to *Table 5* for sildenafil when administered for erectile dysfunction [see *Drug Interactions (7.3)*].

<sup>b</sup> Refer to *Table 5* for parenterally administered midazolam [see *Drug Interactions (7.3)*].

## 5 WARNINGS AND PRECAUTIONS

### 5.1 Cardiac Conduction Abnormalities

Atazanavir prolongs the PR interval of the electrocardiogram in some patients. In healthy subjects and in subjects with HIV-1 infection treated with atazanavir, abnormalities in atrioventricular (AV) conduction were asymptomatic and generally limited to first-degree AV block. There have been reports of second-degree AV block and other conduction abnormalities [see *Adverse Reactions (6.1) and Overdosage (10)*]. In clinical trials of atazanavir in subjects with HIV-1 infection that included electrocardiograms, asymptomatic first-degree AV block was observed in 6% of subjects treated with atazanavir (n=920) and 5% of subjects (n=118) treated with atazanavir coadministered with ritonavir. Because of limited clinical experience in patients with preexisting conduction

system disease (e.g., marked first-degree AV block or second- or third-degree AV block), consider ECG monitoring in these patients [see *Clinical Pharmacology (12.2)*].

## 5.2 Severe Skin Reactions

Cases of Stevens-Johnson syndrome, erythema multiforme, and toxic skin eruptions, including drug rash, eosinophilia and systemic symptoms (DRESS) syndrome, have been reported in patients receiving atazanavir [see *Contraindications (4)* and *Adverse Reactions (6.1)*]. EVOTAZ should be discontinued if severe rash develops.

Mild-to-moderate maculopapular skin eruptions have also been reported in atazanavir clinical trials. These reactions had a median time to onset of 7.3 weeks and median duration of 1.4 week and generally did not result in treatment discontinuation.

## 5.3 Effects on Serum Creatinine

Cobicistat decreases estimated creatinine clearance due to inhibition of tubular secretion of creatinine without affecting actual renal glomerular function. This effect should be considered when interpreting changes in estimated creatinine clearance in patients initiating EVOTAZ, particularly in patients with medical conditions or receiving drugs needing monitoring with estimated creatinine clearance.

Prior to initiating therapy with EVOTAZ, assess estimated creatinine clearance [see *Dosage and Administration (2.1)*]. Dosage recommendations are not available for drugs that require dosage adjustments in cobicistat-treated patients with renal impairment [see *Adverse Reactions (6.1)*, *Drug Interactions (7.3)*, and *Clinical Pharmacology (12.2)*]. Consider alternative medications that do not require dosage adjustments in patients with renal impairment.

Although cobicistat may cause modest increases in serum creatinine and modest declines in estimated creatinine clearance without affecting renal glomerular function, patients who experience a confirmed increase in serum creatinine of greater than 0.4 mg/dL from baseline should be closely monitored for renal safety.

## 5.4 New Onset or Worsening Renal Impairment When Used with Tenofovir DF

Renal impairment, including cases of acute renal failure and Fanconi syndrome, has been reported when cobicistat was used in an antiretroviral regimen that contained tenofovir DF. Therefore, coadministration of EVOTAZ and tenofovir DF is not recommended in patients who have an estimated creatinine clearance below 70 mL/min [see *Dosage and Administration (2.3)*].

- When EVOTAZ is used with tenofovir DF, document urine glucose and urine protein at baseline and perform routine monitoring of estimated creatinine clearance, urine glucose, and urine protein during treatment.
- Measure serum phosphorus in patients with or at risk for renal impairment.
- Coadministration of EVOTAZ and tenofovir DF in combination with concomitant or recent use of a nephrotoxic agent is not recommended.

In a clinical trial over 144 weeks (N=692), 10 (2.9%) subjects treated with atazanavir coadministered with cobicistat and tenofovir DF and 11 (3.2%) subjects treated with atazanavir coadministered with ritonavir and tenofovir DF discontinued study drug due to a renal adverse event. Seven of the 10 subjects (2.0% overall) in the cobicistat group had laboratory findings consistent with proximal renal tubulopathy leading to study drug discontinuation, compared to 7 of 11 subjects (2.0% overall) in the ritonavir group. One subject in the cobicistat group had renal impairment at baseline (e.g., estimated creatinine clearance less than 70 mL/min). The laboratory findings in these 7 subjects treated with cobicistat, with evidence of proximal tubulopathy improved but did not completely resolve in all subjects upon discontinuation of cobicistat coadministered with atazanavir and tenofovir DF. Renal replacement therapy was not required in any subject.

### **5.5 Chronic Kidney Disease**

Chronic kidney disease in patients with HIV-1 infection treated with atazanavir, with or without ritonavir, has been reported during postmarketing surveillance. Reports included biopsy-proven cases of granulomatous interstitial nephritis associated with the deposition of atazanavir drug crystals in the renal parenchyma. Consider alternatives to EVOTAZ in patients at high risk for renal disease or with preexisting renal disease. Renal laboratory testing (including serum creatinine, estimated creatinine clearance, and urinalysis with microscopic examination) should be conducted in all patients prior to initiating therapy with EVOTAZ and continued during treatment with EVOTAZ. Expert consultation is advised for patients who have confirmed renal laboratory abnormalities while taking EVOTAZ. In patients with progressive kidney disease, discontinuation of EVOTAZ may be considered [*see Dosage and Administration (2.1, 2.3) and Adverse Reactions (6.1)*].

### **5.6 Nephrolithiasis and Cholelithiasis**

Cases of nephrolithiasis and/or cholelithiasis have been reported during postmarketing surveillance in patients with HIV-1 infection receiving atazanavir therapy. Some patients required hospitalization for additional management and some had complications. Because these events were reported voluntarily during clinical practice, estimates of frequency cannot be made. If signs or symptoms of nephrolithiasis and/or cholelithiasis occur, temporary interruption or discontinuation of therapy may be considered [*see Adverse Reactions (6, 6.1)*].

### **5.7 Hepatotoxicity**

Patients with underlying hepatitis B or C viral infections or marked elevations in transaminases may be at increased risk for developing further transaminase elevations or hepatic decompensation. In these patients, hepatic laboratory testing should be conducted prior to initiating therapy with EVOTAZ and during treatment [*see Dosage and Administration (2.4) and Use in Specific Populations (8.7)*].

## 5.8 Risk of Serious Adverse Reactions or Loss of Virologic Response Due to Drug Interactions

Initiation of EVOTAZ, a CYP3A inhibitor, in patients receiving medications metabolized by CYP3A or initiation of medications metabolized by CYP3A in patients already receiving EVOTAZ, may increase plasma concentrations of medications metabolized by CYP3A.

Initiation of medications that inhibit or induce CYP3A may increase or decrease concentrations of EVOTAZ, respectively.

Increased concentrations of EVOTAZ may lead to:

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

Decreased concentrations of EVOTAZ may lead to:

- loss of therapeutic effect of EVOTAZ and possible development of resistance.

See Table 5 for steps to prevent or manage these possible and known significant drug interactions, including dosing recommendations [*see Drug Interactions (7.3)*]. Consider the potential for drug interactions prior to and during EVOTAZ therapy; review concomitant medications during EVOTAZ therapy; and monitor for the adverse reactions associated with the concomitant medications [*see Contraindications (4) and Drug Interactions (7)*].

When used with concomitant medications, EVOTAZ may result in different drug interactions than those observed or expected with atazanavir coadministered with ritonavir. Complex or unknown mechanisms of drug interactions preclude extrapolation of drug interactions with atazanavir coadministered with ritonavir to certain EVOTAZ interactions [*see Drug Interactions (7) and Clinical Pharmacology (12.3)*].

## 5.9 Antiretrovirals that are Not Recommended

EVOTAZ is not recommended in combination with other antiretroviral drugs that require CYP3A inhibition to achieve adequate exposures (e.g., other HIV protease inhibitors or elvitegravir) because dosing recommendations for such combinations have not been established and coadministration may result in decreased plasma concentrations of the antiretroviral agents, leading to loss of therapeutic effect and development of resistance.

EVOTAZ is not recommended in combination with ritonavir or products containing ritonavir due to similar effects of cobicistat and ritonavir on CYP3A.

See *Drug Interactions (7)* for additional recommendations on use with other antiretroviral agents.

## 5.10 Hyperbilirubinemia

Most patients taking atazanavir experience asymptomatic elevations in indirect (unconjugated) bilirubin related to inhibition of UDP-glucuronosyltransferase (UGT). This hyperbilirubinemia is reversible upon discontinuation of atazanavir. Hepatic transaminase elevations that occur with hyperbilirubinemia should be evaluated for alternative etiologies. No long-term safety data are



available for patients experiencing persistent elevations in total bilirubin greater than 5 times the upper limit of normal (ULN). Alternative antiretroviral therapy to EVOTAZ may be considered if jaundice or scleral icterus associated with bilirubin elevations presents cosmetic concerns for patients [see *Adverse Reactions (6)*].

### **5.11 Immune Reconstitution Syndrome**

Immune reconstitution syndrome has been reported in patients treated with combination antiretroviral therapy, including atazanavir, a component of EVOTAZ. During the initial phase of combination antiretroviral treatment, patients whose immune system responds may develop an inflammatory response to indolent or residual opportunistic infections (such as *Mycobacterium avium* infection, cytomegalovirus, *Pneumocystis jiroveci* pneumonia, or tuberculosis), which may necessitate further evaluation and treatment.

Autoimmune disorders (such as Graves' disease, polymyositis, Guillain-Barré syndrome, and autoimmune hepatitis) 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.

### **5.12 Diabetes Mellitus/Hyperglycemia**

New-onset diabetes mellitus, exacerbation of preexisting diabetes mellitus, and hyperglycemia have been reported during postmarketing surveillance in patients with HIV-1 infection 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 a causal relationship between protease inhibitor therapy and these events has not been established.

### **5.13 Fat Redistribution**

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.

### **5.14 Hemophilia**

There have been reports of increased bleeding, including spontaneous skin hematomas and hemarthrosis, in patients with hemophilia type A and B treated with protease inhibitors. In some patients additional factor VIII was given. In more than half of the reported cases, treatment with protease inhibitors was continued or reintroduced. A causal relationship between protease inhibitor therapy and these events has not been established.

## 6 ADVERSE REACTIONS

The following adverse reactions are discussed in greater detail in other sections of the labeling:

- cardiac conduction abnormalities [see *Warnings and Precautions (5.1)*]
- rash [see *Warnings and Precautions (5.2)*]
- effects on serum creatinine [see *Warnings and Precautions (5.3)*]
- new onset or worsening renal impairment when used with tenofovir DF [see *Warnings and Precautions (5.4)*]
- chronic kidney disease [see *Warnings and Precautions (5.5)*]
- nephrolithiasis and cholelithiasis [see *Warnings and Precautions (5.6)*]
- hepatotoxicity [see *Warnings and Precautions (5.7)*]
- hyperbilirubinemia [see *Warnings and Precautions (5.10)*]

For additional safety information about atazanavir and cobicistat, consult the full prescribing information for these individual products.

### 6.1 Clinical Trial Experience

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

#### Adverse Reactions from Clinical Trial Experience in Adult Subjects

The safety of atazanavir and cobicistat coadministered as single agents is based on Week 144 data from a Phase 3 trial, Study GS-US-216-0114, in which 692 antiretroviral treatment-naïve subjects with HIV-1 infection received:

- atazanavir coadministered with cobicistat and emtricitabine/tenofovir DF (N=344) or
- atazanavir coadministered with ritonavir and emtricitabine/tenofovir DF (N=348).

The most common adverse reactions (Grades 2-4) and reported in  $\geq 5\%$  of subjects in the atazanavir coadministered with cobicistat group were jaundice (6%) and rash (5%).

The proportion of subjects who discontinued study treatment due to adverse events regardless of severity, was 11% in both the atazanavir coadministered with cobicistat and atazanavir coadministered with ritonavir groups. Table 2 lists the frequency of adverse reactions (Grades 2-4) occurring in at least 2% of subjects in the atazanavir coadministered with cobicistat group in Study GS-US-216-0114.

**Table 2: Selected Adverse Reactions<sup>a</sup> (Grades 2-4) Reported in  $\geq 2\%$  of Treatment-Naive Adults with HIV-1 Infection in the Atazanavir Coadministered with Cobicistat Group in Study GS-US-216-0114 (Week 144 analysis)**

	Atazanavir coadministered with cobicistat and emtricitabine/tenofovir DF (n=344)	Atazanavir coadministered with ritonavir and emtricitabine/tenofovir DF (n=348)
Jaundice	6%	3%
Rash <sup>b</sup>	5%	4%
Ocular icterus	4%	2%
Nausea	2%	2%
Diarrhea	2%	1%
Headache	2%	1%

<sup>a</sup> Frequencies of adverse reactions are based on Grades 2-4 adverse events attributed to study drugs.

<sup>b</sup> Rash events include dermatitis allergic, drug hypersensitivity, pruritus generalized, eosinophilic pustular folliculitis, rash, rash generalized, rash macular, rash maculopapular, rash morbilliform, rash papular, and urticaria.

### Less Common Adverse Reactions

Selected adverse reactions of at least moderate severity ( $\geq$  Grade 2) occurring in less than 2% of subjects receiving atazanavir coadministered with cobicistat and emtricitabine/tenofovir DF are listed below. These events have been included because of investigator's assessment of potential causal relationship and were considered serious or have been reported in more than one subject treated with atazanavir coadministered with cobicistat, and reported with greater frequency compared with the atazanavir coadministered with ritonavir group.

*Gastrointestinal Disorders:* vomiting, upper abdominal pain

*General Disorders and Administration Site Conditions:* fatigue

*Musculoskeletal and Connective Tissue Disorders:* rhabdomyolysis

*Psychiatric Disorders:* depression, abnormal dreams, insomnia

*Renal and Urinary Disorders:* nephropathy, Fanconi syndrome acquired, nephrolithiasis

### Laboratory Abnormalities

The frequency of laboratory abnormalities (Grades 3-4) occurring in at least 2% of subjects in the atazanavir coadministered with cobicistat group in Study GS-US-216-0114 is presented in Table 3.

**Table 3: Laboratory Abnormalities (Grades 3-4) Reported in  $\geq 2\%$  of HIV-1- Infected Treatment-Naive Adults in the Atazanavir Coadministered with Cobicistat Group in Study GS-US-216-0114 (Week 144 analysis)**

Laboratory Parameter Abnormality	144 weeks	144 weeks
	Atazanavir coadministered with cobicistat and emtricitabine/tenofovir DF (n=344)	Atazanavir coadministered with ritonavir and emtricitabine/tenofovir DF (n=348)
Total Bilirubin ( $>2.5 \times \text{ULN}$ )	73%	66%
Creatine Kinase ( $\geq 10.0 \times \text{ULN}$ )	8%	9%
Urine RBC (Hematuria) ( $>75 \text{ RBC/HPF}$ )	6%	3%
ALT ( $>5.0 \times \text{ULN}$ )	6%	3%
AST ( $>5.0 \times \text{ULN}$ )	4%	3%
GGT ( $>5.0 \times \text{ULN}$ )	4%	2%
Serum Amylase <sup>a</sup> ( $>2.0 \times \text{ULN}$ )	4%	2%
Urine Glucose (Glycosuria $\geq 1000 \text{ mg/dL}$ )	3%	3%
Neutrophils ( $<750/\text{mm}^3$ )	3%	2%
Serum Glucose (Hyperglycemia) ( $\geq 250 \text{ mg/dL}$ )	2%	2%

<sup>a</sup> For subjects with serum amylase  $>1.5 \times$  upper limit of normal, lipase test was also performed. The frequency of increased lipase (Grades 3-4) occurring in the atazanavir coadministered with cobicistat group (N=46) and atazanavir coadministered with ritonavir group (N=35) was 7% and 3%, respectively.

*Increase in Serum Creatinine:* Cobicistat, a component of EVOTAZ, has been shown to increase serum creatinine and decrease estimated creatinine clearance due to inhibition of tubular secretion of creatinine without affecting actual renal glomerular function [see *Warnings and Precautions (5.3) and Clinical Pharmacology (12.2)*]. In Study GS-US-216-0114, increases in serum creatinine and decreases in estimated creatinine clearance occurred early in treatment in the atazanavir coadministered with cobicistat group, after which they stabilized. The mean ( $\pm$  SD) change in estimated glomerular filtration rate (eGFR) by Cockcroft-Gault method after 144 weeks of treatment was  $-15.1 \pm 16.5 \text{ mL/min}$  in the atazanavir coadministered with cobicistat group and  $-8.0 \pm 16.8 \text{ mL/min}$  in the atazanavir coadministered with ritonavir group.

### Serum Lipids

Changes from baseline in total cholesterol, HDL-cholesterol, LDL-cholesterol, and triglycerides are presented in Table 4. In both groups, mean values for serum lipids remained within the normal range for each laboratory test. The clinical significance of these changes is unknown.

**Table 4: Lipid Values, Mean Change from Baseline, Reported in Treatment-Naive Adults with HIV-1 Infection Receiving Atazanavir Coadministered with Cobicistat and Emtricitabine/Tenofovir DF or Atazanavir Coadministered with Ritonavir and Emtricitabine/Tenofovir DF in Study GS-US-216-0114 (Week 144 analysis)**

	Atazanavir coadministered with cobicistat and emtricitabine/tenofovir DF		Atazanavir coadministered with ritonavir and emtricitabine/tenofovir DF	
	Baseline mg/dL	Week 144 change from baseline <sup>a</sup>	Baseline mg/dL	Week 144 change from baseline <sup>a</sup>
Total Cholesterol (fasted)	163 [N=219]	+11 [N=219]	165 [N=227]	+13 [N=227]
HDL-cholesterol (fasted)	43 [N=218]	+7 [N=218]	43 [N=228]	+6 [N=228]
LDL-cholesterol (fasted)	102 [N=218]	+11 [N=218]	104 [N=228]	+16 [N=228]
Triglycerides (fasted)	130 [N=219]	+14 [N=219]	131 [N=227]	+14 [N=227]

<sup>a</sup> The change from baseline is the mean of within-subject changes from baseline for subjects with both baseline and Week 144 values and excludes subjects receiving an HMG-CoA reductase inhibitor drug.

## Adverse Reactions from Clinical Trial Experience in Pediatric Subjects

Although no clinical trial with EVOTAZ as the fixed-dose tablet was conducted in a pediatric population, the safety of atazanavir coadministered with cobicistat plus two nucleoside reverse transcriptase inhibitors was evaluated in treatment-experienced virologically suppressed subjects with HIV-1 infection between the ages of 12 to less than 18 years (N=14) through Week 48 in an open-label clinical trial (Study GS-US-216-0128) [see *Clinical Studies (14.2)*]. Results from this study showed that the safety profile of atazanavir and cobicistat coadministered with a background regimen was similar to that in adults.

## 6.2 Postmarketing Experience

See the full prescribing information for atazanavir for postmarketing information on atazanavir.

## 7 DRUG INTERACTIONS

### 7.1 Potential for EVOTAZ to Affect Other Drugs

Atazanavir is an inhibitor of CYP3A and UGT1A1 and a weak inhibitor of CYP2C8. Cobicistat is an inhibitor of CYP3A and CYP2D6. The transporters that cobicistat inhibits include P-glycoprotein (P-gp), BCRP, OATP1B1 and OATP1B3.

Coadministration of EVOTAZ with drugs highly dependent on CYP3A for clearance and for which elevated plasma concentrations are associated with serious and/or life-threatening events is contraindicated [see *Contraindications (4)*]. Coadministration of EVOTAZ and drugs primarily

metabolized by CYP3A, UGT1A1 and/or CYP2D6 or drugs that are substrates of P-gp, BCRP, OATP1B1 and/or OATP1B3 may result in increased plasma concentrations of the other drug that could increase or prolong its therapeutic effects and adverse reactions which may require dose adjustments and/or additional monitoring as shown in Table 5. Use of EVOTAZ is not recommended when coadministered with drugs highly dependent on CYP2C8 for clearance with narrow therapeutic indices (e.g., paclitaxel, repaglinide) [see *Clinical Pharmacology (12.3; Table 7)*].

## **7.2 Potential for Other Drugs to Affect EVOTAZ**

Atazanavir and cobicistat are CYP3A4 substrates; therefore, drugs that induce CYP3A4 may decrease atazanavir and cobicistat plasma concentrations and reduce the therapeutic effect of EVOTAZ, leading to development of resistance to atazanavir (see Table 5). Cobicistat is also metabolized by CYP2D6 to a minor extent.

Coadministration of EVOTAZ with other drugs that inhibit CYP3A4 may increase the plasma concentrations of cobicistat and atazanavir (see Table 5).

Atazanavir solubility decreases as pH increases. Reduced plasma concentrations of atazanavir are expected if proton-pump inhibitors, antacids, buffered medications, or H<sub>2</sub>-receptor antagonists are administered with EVOTAZ (see Table 5) [see *Dosage and Administration (2.2)*].

## **7.3 Established and Other Potentially Significant Drug Interactions**

Table 5 provides dosing recommendations as a result of drug interactions with the components of EVOTAZ. These recommendations are based either on observed drug interactions in studies of cobicistat, atazanavir, or atazanavir coadministered with ritonavir or predicted drug interactions based on the expected magnitude of interaction and potential for serious events or loss of therapeutic effect of EVOTAZ [see *Contraindications (4), Warnings and Precautions (5.8), and Clinical Pharmacology (12.3)*].

**Table 5: Established and Other Potentially Significant Drug Interactions with EVOTAZ: Alteration in Dose or Regimen May Be Recommended Based on Drug Interaction Studies<sup>a</sup> or Predicted Interactions**

Concomitant Drug Class: Specific Drugs	Effect <sup>b</sup> on Concentration	Clinical Comment
<b>HIV Antiretroviral Agents: Nucleoside and Nucleotide Reverse Transcriptase Inhibitors (NRTIs and NtRTIs)</b>		
didanosine buffered formulations enteric-coated (EC) capsules	↓ atazanavir ↓ didanosine	It is recommended that EVOTAZ be given with food 2 hours before or 1 hour after didanosine buffered formulations. Simultaneous administration of didanosine EC and atazanavir with food results in a decrease in didanosine exposure. Thus, EVOTAZ and didanosine EC should be administered at different times.
tenofovir disoproxil fumarate	↓ atazanavir ↑ tenofovir	Patients receiving EVOTAZ and tenofovir should be monitored for tenofovir-associated adverse reactions [see <i>Warnings and Precautions (5.4)</i> ].
<b>HIV Antiretroviral Agents: Non-nucleoside Reverse Transcriptase Inhibitors (NNRTIs)</b>		
nevirapine	↓ atazanavir ↑ nevirapine	Coadministration of EVOTAZ with nevirapine is contraindicated due to potential for loss of atazanavir therapeutic effect and development of resistance, and potential for nevirapine-associated adverse reactions [see <i>Contraindications (4)</i> ].
efavirenz	↓ atazanavir ↓ cobicistat ↔ efavirenz	Coadministration of EVOTAZ with efavirenz is not recommended because it may result in a loss of therapeutic effect and development of resistance to atazanavir.
etravirine	↓ atazanavir ↓ cobicistat	Coadministration of EVOTAZ with etravirine is not recommended because it may result in the loss of therapeutic effect and development of resistance to atazanavir.
<b>HIV Antiretroviral Agents: CCR5 Antagonist</b>		
maraviroc	↑ maraviroc	When coadministering maraviroc and EVOTAZ, patients should receive maraviroc 150 mg twice daily.
<b>HIV Antiretroviral Agents: Protease Inhibitor</b>		
indinavir		Coadministration with indinavir is contraindicated [see <i>Contraindications (4)</i> ]. Both atazanavir and indinavir are associated with indirect (unconjugated) hyperbilirubinemia.
ritonavir or products containing ritonavir	↑ atazanavir	Coadministration of EVOTAZ and ritonavir or ritonavir-containing regimens is not recommended due to similar effects of cobicistat and ritonavir on CYP3A [see <i>Warnings and Precautions (5.9)</i> ].
<b>Hepatitis C Antiviral Agents</b>		
sofosbuvir/velpatasvir/ voxilaprevir	↑ voxilaprevir	Coadministration with EVOTAZ is not recommended.
<b>Other Agents</b>		
<i>Alpha 1-adrenoreceptor antagonist:</i> alfuzosin	↑ alfuzosin	Coadministration of EVOTAZ with alfuzosin is contraindicated due to the potential for increased alfuzosin concentrations, which can result in hypotension [see <i>Contraindications (4)</i> ].

**Table 5: Established and Other Potentially Significant Drug Interactions with EVOTAZ: Alteration in Dose or Regimen May Be Recommended Based on Drug Interaction Studies<sup>a</sup> or Predicted Interactions**

Concomitant Drug Class: Specific Drugs	Effect <sup>b</sup> on Concentration	Clinical Comment
<i>Antacids and buffered medications (please also see H<sub>2</sub>-receptor antagonists and proton-pump inhibitors below)</i>	↓ atazanavir	With concomitant use, administer a minimum of 2 hours apart.
<i>Antianginal:</i> ranolazine	↑ ranolazine	Coadministration of EVOTAZ with ranolazine is contraindicated due to the potential for serious and/or life-threatening reactions [see <i>Contraindications (4)</i> ].
<i>Antiarrhythmics:</i> dronedarone	↑ dronedarone	Coadministration of EVOTAZ with dronedarone is contraindicated due to potential for serious and/or life-threatening reactions such as cardiac arrhythmias [see <i>Contraindications (4)</i> ].
amiodarone, quinidine lidocaine (systemic), disopyramide, flecainide mexiletine, propafenone	↑ other antiarrhythmics	Clinical monitoring is recommended upon coadministration with antiarrhythmics.
digoxin	↑ digoxin	When coadministering EVOTAZ with digoxin, titrate the digoxin dose and monitor digoxin concentrations.
<i>Antibacterials (macrolide or ketolide antibiotics):</i> clarithromycin erythromycin telithromycin	↑ atazanavir ↑ cobicistat ↑ clarithromycin ↑ erythromycin ↑ telithromycin	Consider alternative antibiotics.
<i>Anticancer Agents:</i> irinotecan	↑ irinotecan	Coadministration of EVOTAZ with irinotecan is contraindicated due to potential for increased irinotecan toxicity [see <i>Contraindications (4)</i> ].
(e.g., dasatinib, nilotinib, vinblastine, vincristine)	↑ other anticancer agents	A decrease in the dosage or an adjustment of the dosing interval of dasatinib or nilotinib may be necessary upon coadministration with EVOTAZ. Consult the dasatinib and nilotinib full prescribing information for dosing instructions.  For vincristine and vinblastine, monitor for hematologic or gastrointestinal side effects.



**Table 5: Established and Other Potentially Significant Drug Interactions with EVOTAZ: Alteration in Dose or Regimen May Be Recommended Based on Drug Interaction Studies<sup>a</sup> or Predicted Interactions**

Concomitant Drug Class: Specific Drugs	Effect <sup>b</sup> on Concentration	Clinical Comment
<i>Anticoagulants:</i>		
<i>Direct-acting oral anticoagulants (DOACs)</i>		
apixaban	↑ apixaban	Due to potentially increased bleeding risk, dosing recommendations for coadministration of apixaban with EVOTAZ depends on the apixaban dose. Refer to apixaban dosing instructions for coadministration with strong CYP3A4 and P-gp inhibitors in apixaban prescribing information.
rivaroxaban	↑ rivaroxaban	Coadministration of EVOTAZ and rivaroxaban is not recommended because it may lead to increased bleeding risk.
betrixaban dabigatran etexilate edoxaban	↑ betrixaban ↑ dabigatran ↑ edoxaban	Due to potentially increased bleeding risk, dosing recommendations for coadministration of betrixaban, dabigatran, or edoxaban with a P-gp inhibitor such as EVOTAZ depends on DOAC indication and renal function. Refer to DOAC dosing instructions for coadministration with P-gp inhibitors in DOAC prescribing information.
warfarin	warfarin: effect unknown	Monitor the International Normalized Ratio (INR) when EVOTAZ is coadministered with warfarin.
<i>Anticonvulsants:</i>		
carbamazepine, phenobarbital, phenytoin	↓ atazanavir ↓ cobicistat	Coadministration of EVOTAZ with carbamazepine, phenobarbital, or phenytoin is contraindicated due to potential for loss of therapeutic effect and development of resistance [see <i>Contraindications (4)</i> ].
Anticonvulsants with CYP3A induction effects that are NOT contraindicated (e.g., eslicarbazepine, oxcarbazepine)	↓ atazanavir ↓ cobicistat	Consider alternative anticonvulsant or antiretroviral therapy to avoid potential changes in exposures. If coadministration is necessary, monitor for lack or loss of virologic response.
Anticonvulsants that are metabolized by CYP3A (e.g., clonazepam)	↑ clonazepam	Clinical monitoring of anticonvulsants is recommended with EVOTAZ coadministration.
Other anticonvulsants (e.g., lamotrigine)	lamotrigine: effects unknown	Monitoring of lamotrigine concentrations is recommended with EVOTAZ coadministration.
<i>Antidepressants:</i>		
Selective Serotonin Reuptake Inhibitors (SSRIs) (e.g., paroxetine)	SSRIs: effects unknown	When coadministering with SSRIs, TCAs, or trazodone, careful dose titration of the antidepressant to the desired effect, using the lowest feasible initial or maintenance dose, and monitoring for antidepressant response are recommended.
Tricyclic Antidepressants (TCAs) (e.g., amitriptyline, desipramine, imipramine, nortriptyline)	↑ TCAs	
Other Antidepressants (e.g., trazodone)	↑ trazodone	

**Table 5: Established and Other Potentially Significant Drug Interactions with EVOTAZ: Alteration in Dose or Regimen May Be Recommended Based on Drug Interaction Studies<sup>a</sup> or Predicted Interactions**

Concomitant Drug Class: Specific Drugs	Effect <sup>b</sup> on Concentration	Clinical Comment
<i>Antifungals:</i> ketoconazole, itraconazole	↑ atazanavir ↑ cobicistat ↑ ketoconazole ↑ itraconazole	Specific dosing recommendations are not available for coadministration of EVOTAZ with either itraconazole or ketoconazole.
voriconazole	effects unknown	Coadministration with voriconazole is not recommended unless the benefit/risk assessment justifies the use of voriconazole.
<i>Antigout:</i> colchicine	↑ colchicine	Coadministration of EVOTAZ with colchicine in patients with renal or hepatic impairment is contraindicated due to the potential for serious and/or life-threatening reactions [see <i>Contraindications (4)</i> ]. <b>Recommended dosage of colchicine when administered with EVOTAZ:</b> <b>Treatment of gout flares:</b> 0.6 mg (1 tablet) for 1 dose, followed by 0.3 mg (half tablet) 1 hour later. Treatment course should be repeated no earlier than 3 days. <b>Prophylaxis of gout flares:</b> If the original regimen was 0.6 mg twice a day, the regimen should be adjusted to 0.3 mg once a day. If the original regimen was 0.6 mg once a day, the regimen should be adjusted to 0.3 mg once every other day. <b>Treatment of familial Mediterranean fever (FMF):</b> Maximum daily dose of 0.6 mg (may be given as 0.3 mg twice a day).
<i>Antimycobacterials:</i> rifabutin	atazanavir: effect unknown cobicistat: effect unknown ↑ rifabutin	A rifabutin dose reduction of up to 75% (e.g., 150 mg every other day or 3 times per week) is recommended. Increased monitoring for rifabutin-associated adverse reactions, including neutropenia and uveitis, is warranted.
rifampin	↓ atazanavir ↓ cobicistat	Coadministration with rifampin is contraindicated due to potential for loss of therapeutic effect and development of resistance [see <i>Contraindications (4)</i> ].
<i>Antiplatelets:</i> ticagrelor	↑ ticagrelor	Coadministration with ticagrelor is not recommended due to the potential increase of the antiplatelet activity of ticagrelor.
clopidogrel	↓ clopidogrel active metabolite	Coadministration with clopidogrel is not recommended due to the potential reduction of the antiplatelet activity of clopidogrel.
prasugrel	↔ prasugrel active metabolite	No dose adjustment is needed when prasugrel is coadministered with atazanavir and/or cobicistat.
<i>Antipsychotics:</i> lurasidone	↑ lurasidone	Coadministration with lurasidone is contraindicated due to the potential for serious and/or life-threatening reactions [see <i>Contraindications (4)</i> ].
pimozide	↑ pimozide	Coadministration with pimozide is contraindicated due to the potential for serious and/or life-threatening reactions such as cardiac arrhythmias [see <i>Contraindications (4)</i> ].

**Table 5: Established and Other Potentially Significant Drug Interactions with EVOTAZ: Alteration in Dose or Regimen May Be Recommended Based on Drug Interaction Studies<sup>a</sup> or Predicted Interactions**

Concomitant Drug Class: Specific Drugs	Effect <sup>b</sup> on Concentration	Clinical Comment
quetiapine	↑ quetiapine	<u>Initiation of EVOTAZ in patients taking quetiapine:</u> Consider alternative antiretroviral therapy to avoid increases in quetiapine exposures. If coadministration is necessary, reduce the quetiapine dose to 1/6 of the current dose and monitor for quetiapine-associated adverse reactions. Refer to the quetiapine prescribing information for recommendations on adverse reaction monitoring. <u>Initiation of quetiapine in patients taking EVOTAZ:</u> Refer to the quetiapine prescribing information for initial dosing and titration of quetiapine.
(e.g., perphenazine, risperidone, thioridazine)	↑ antipsychotic	A decrease in the dose of antipsychotics that are metabolized by CYP3A or CYP2D6 may be needed when coadministered with EVOTAZ.
<i>Beta-agonist (inhaled):</i> salmeterol	↑ salmeterol	Coadministration with salmeterol is not recommended due to an increased risk of cardiovascular adverse reactions associated with salmeterol, including QT prolongation, palpitations, and sinus tachycardia.
<i>Beta-Blockers:</i> (e.g., metoprolol, carvedilol, timolol)	↔ atazanavir ↑ beta-blockers	Clinical monitoring is recommended when beta-blockers that are metabolized by CYP2D6 are coadministered with EVOTAZ.
<i>Calcium channel blockers:</i> (e.g., amlodipine, diltiazem, felodipine, nifedipine, and verapamil)	↑ calcium channel blocker	Clinical monitoring is recommended for coadministration with calcium channel blockers metabolized by CYP3A. ECG monitoring is recommended.
<i>Corticosteroids:</i> e.g., betamethasone budesonide ciclesonide dexamethasone fluticasone methylprednisolone mometasone triamcinolone	↓ atazanavir ↓ cobicistat ↑ corticosteroids	Coadministration with oral dexamethasone or other systemic corticosteroids that induce CYP3A may result in loss of therapeutic effect and development of resistance to atazanavir. Consider alternative corticosteroids. Coadministration with corticosteroids (all routes of administration) whose exposures are significantly increased by strong CYP3A inhibitors can increase the risk for Cushing's syndrome and adrenal suppression. Alternative corticosteroids including beclomethasone, prednisone, and prednisolone (whose PK and/or PD are less affected by strong CYP3A inhibitors relative to other studied steroids) should be considered, particularly for long-term use.
<i>Endothelin receptor antagonists:</i> bosentan	↓ atazanavir ↓ cobicistat ↑ bosentan	<b><i>Initiation of bosentan in patients taking EVOTAZ:</i></b> For patients who have been receiving EVOTAZ for at least 10 days, start bosentan at 62.5 mg once daily or every other day based on individual tolerability. <b><i>Initiation of EVOTAZ in patients taking bosentan:</i></b> Discontinue bosentan at least 36 hours before starting EVOTAZ. After at least 10 days following initiation of EVOTAZ, resume bosentan at 62.5 mg once daily or every other day based on individual tolerability. <b><i>Switching from atazanavir coadministered with ritonavir to EVOTAZ:</i></b> Maintain bosentan dose.

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Concomitant Drug Class: Specific Drugs	Effect <sup>b</sup> on Concentration	Clinical Comment
<i>Ergot Derivatives</i> dihydroergotamine, ergotamine, methylergonovine	↑ ergot derivatives	Coadministration of EVOTAZ with ergot derivatives is contraindicated due to the potential for serious and/or life-threatening events such as acute ergot toxicity, characterized by peripheral vasospasm and ischemia of the extremities and other tissues [see <i>Contraindications (4)</i> ].
<i>GI Motility Agents</i> cisapride	↑ cisapride	Coadministration of EVOTAZ with cisapride is contraindicated due to the potential for serious and/or life-threatening reactions such as cardiac arrhythmias [see <i>Contraindications (4)</i> ].
<i>Hepatitis C Direct-Acting Antivirals</i> elbasvir/grazoprevir	↑ grazoprevir	Coadministration of EVOTAZ with elbasvir/grazoprevir is contraindicated due to increased risk of ALT elevations [see <i>Contraindications (4)</i> ].
glecaprevir/pibrentasvir	↑ glecaprevir ↑ pibrentasvir	Coadministration of EVOTAZ with glecaprevir/pibrentasvir is contraindicated due to increased risk of ALT elevations [see <i>Contraindications (4)</i> ].
<i>Herbal Products</i> St. John's wort ( <i>Hypericum perforatum</i> )	↓ atazanavir ↓ cobicistat	Coadministration of products containing St. John's wort and EVOTAZ is contraindicated due to potential for loss of therapeutic effect and development of resistance [see <i>Contraindications (4)</i> ].
<i>H<sub>2</sub>-Receptor antagonists (H<sub>2</sub>RA):</i> (e.g., famotidine)	↓ atazanavir	Coadministration of EVOTAZ with tenofovir DF and an H <sub>2</sub> RA in treatment-experienced patients is not recommended.  Administer EVOTAZ either at the same time or at a minimum of 10 hours after a dose of the H <sub>2</sub> RA. The dose of the H <sub>2</sub> RA should not exceed a dose comparable to famotidine 40 mg twice daily in treatment-naïve patients or 20 mg twice daily in treatment-experienced patients.
<i>Lipid-modifying agents:</i> <i>Other lipid-modifying agents:</i> lomitapide	↑ lomitapide	Coadministration with lomitapide is contraindicated due to the potential for risk of markedly increased transaminase levels and hepatotoxicity [see <i>Contraindications (4)</i> ].
<i>HMG-CoA reductase inhibitors</i> lovastatin simvastatin	↑ lovastatin ↑ simvastatin	Coadministration with lovastatin or simvastatin is contraindicated due to the potential for serious reactions such as myopathy, including rhabdomyolysis [see <i>Contraindications (4)</i> ].
<i>Other HMG-CoA reductase inhibitors:</i> atorvastatin, fluvastatin, pravastatin, rosuvastatin	↑ HMG-CoA reductase inhibitors	Coadministration of EVOTAZ with atorvastatin is not recommended.  For HMG-CoA reductase inhibitors that are not contraindicated with EVOTAZ, start with the lowest recommended dose and titrate while monitoring for safety (e.g., myopathy). Dosage recommendations with rosuvastatin are as follows. Rosuvastatin dose should not exceed 10 mg/day.

**Table 5: Established and Other Potentially Significant Drug Interactions with EVOTAZ: Alteration in Dose or Regimen May Be Recommended Based on Drug Interaction Studies<sup>a</sup> or Predicted Interactions**

Concomitant Drug Class: Specific Drugs	Effect <sup>b</sup> on Concentration	Clinical Comment
<i>Hormonal contraceptives:</i> drospirenone/ethinyl estradiol  (e.g., progestin/estrogen)	↑ drospirenone  progestin and estrogen: effects unknown	Coadministration with drospirenone-containing products is contraindicated due to the potential for drospirenone-associated hyperkalemia [see <i>Contraindications (4)</i> ].  No data are available to make recommendations on the coadministration of EVOTAZ and oral or other hormonal contraceptives. Alternative nonhormonal forms of contraception should be considered.
<i>Immunosuppressants:</i> (e.g., cyclosporine, everolimus, sirolimus, tacrolimus)	↑ immunosuppressants	Therapeutic concentration monitoring is recommended for these immunosuppressants when coadministered with EVOTAZ.
<i>Narcotic analgesics:</i> For treatment of opioid dependence: buprenorphine, naloxone, methadone	buprenorphine or buprenorphine/naloxone: effects unknown methadone: effects unknown	<b><i>Initiation of buprenorphine, buprenorphine/naloxone or methadone in patients taking EVOTAZ:</i></b> Carefully titrate the dose of buprenorphine, buprenorphine/naloxone or methadone to the desired effect; use the lowest feasible initial or maintenance dose. <b><i>Initiation of EVOTAZ in patients taking buprenorphine, buprenorphine/naloxone or methadone:</i></b> A dose adjustment for buprenorphine, buprenorphine/naloxone or methadone may be needed. Monitor clinical signs and symptoms.
fentanyl	↑ fentanyl	When EVOTAZ is coadministered with fentanyl, careful monitoring of therapeutic and adverse effects of fentanyl (including potentially fatal respiratory depression) is recommended.
tramadol	↑ tramadol	When EVOTAZ is coadministered with tramadol, a decreased dose of tramadol may be needed.

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Concomitant Drug Class: Specific Drugs	Effect <sup>b</sup> on Concentration	Clinical Comment
<p><i>Phosphodiesterase-5 (PDE-5) inhibitors:</i> avanafil, sildenafil, tadalafil, vardenafil</p>	↑ PDE-5 inhibitors	<p><b>Use of PDE-5 inhibitors for pulmonary arterial hypertension (PAH):</b> Coadministration of EVOTAZ with sildenafil is contraindicated due to the potential for sildenafil-associated adverse events (which include visual disturbances, hypotension, priapism, and syncope) [see <i>Contraindications (4)</i>]. <b>Tadalafil:</b> The following dose adjustments are recommended for the use of tadalafil with EVOTAZ: Initiation of tadalafil in patients taking EVOTAZ:  <ul style="list-style-type: none"> <li>○ For patients receiving EVOTAZ for at least one week, start tadalafil at 20 mg once daily. Increase to 40 mg once daily based on individual tolerability.</li> </ul> Initiation of EVOTAZ in patients taking tadalafil:  <ul style="list-style-type: none"> <li>○ Avoid the use of tadalafil when starting EVOTAZ. Stop tadalafil at least 24 hours before starting EVOTAZ. At least one week after starting EVOTAZ, resume tadalafil at 20 mg once daily. Increase to 40 mg once daily based on individual tolerability.</li> </ul> Patients switching from atazanavir coadministered with ritonavir to EVOTAZ:  <ul style="list-style-type: none"> <li>○ Maintain tadalafil dose.</li> </ul> <b>Use of PDE-5 inhibitors for erectile dysfunction:</b>  <b>Avanafil:</b> Not recommended because a safe and effective dose of avanafil has not been established.  <b>Sildenafil:</b> Reduced dosage to 25 mg every 48 hours with increased monitoring for adverse reactions.  <b>Tadalafil:</b> Reduced dosage to 10 mg every 72 hours with increased monitoring for adverse reactions.  <b>Vardenafil:</b> Reduced dosage to no more than 2.5 mg every 72 hours with increased monitoring for adverse reactions.</p>
<p><i>Proton-pump inhibitors (PPI):</i> (e.g., omeprazole)</p>	↓ atazanavir	<p>In treatment-naïve patients, administer EVOTAZ a minimum of 12 hours after administration of the PPI. The dose of the PPI should not exceed a dose comparable to omeprazole 20 mg daily. In treatment-experienced patients, coadministration of EVOTAZ with PPI is not recommended.</p>
<p><i>Sedatives/Hypnotics:</i> <i>Benzodiazepines</i> midazolam (oral) triazolam</p>	<p>↑ midazolam ↑ triazolam</p>	<p>Coadministration of triazolam or orally administered midazolam is contraindicated due to the potential for serious and/or life-threatening events such as prolonged or increased sedation or respiratory depression. Triazolam and orally administered midazolam are extensively metabolized by CYP3A4 [see <i>Contraindications (4)</i>].</p>

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Concomitant Drug Class: Specific Drugs	Effect <sup>b</sup> on Concentration	Clinical Comment
<i>Other Benzodiazepines:</i>		
clorazepate diazepam estazolam flurazepam parenterally administered midazolam	↑ sedatives/hypnotics	<b>Parenterally administered midazolam:</b> Coadministration should be done in a setting which ensures close clinical monitoring and appropriate medical management in case of respiratory depression and/or prolonged sedation. Dosage reduction for midazolam should be considered, especially if more than a single dose of midazolam is administered.
<i>Other Sedatives/Hypnotics:</i>		
buspirone, zolpidem		With other sedatives/hypnotics that are CYP3A metabolized, a dose reduction may be necessary and clinical monitoring is recommended.

<sup>a</sup> For magnitude of interactions see *Clinical Pharmacology (12.3; Table 7)*.

<sup>b</sup> ↑ = Increase, ↓ = Decrease, ↔ = No change.

## 7.4 Drugs with No Observed or Predicted Interactions with the Components of EVOTAZ

Based on known metabolic profiles, clinically significant drug interactions are not expected between EVOTAZ and acetaminophen, atenolol, dapsone, fluconazole, trimethoprim/sulfamethoxazole, or azithromycin [see *Clinical Pharmacology (12.3; Table 7)*].

## 8 USE IN SPECIFIC POPULATIONS

### 8.1 Pregnancy

#### Pregnancy Exposure Registry

There is a pregnancy exposure registry that monitors pregnancy outcomes in individuals exposed to EVOTAZ during pregnancy. Healthcare providers are encouraged to register patients by calling the Antiretroviral Pregnancy Registry (APR) at 1-800-258-4263.

#### Risk Summary

EVOTAZ is not recommended for use during pregnancy and should not be initiated in pregnant individuals [see *Dosage and Administration (2.5)*]; use of an alternative regimen is recommended for individuals who become pregnant during therapy with EVOTAZ. Pharmacokinetic data from studies conducted in pregnant individuals receiving cobicistat showed substantially lower exposures during the second and third trimesters, and consequently also for the coadministered antiretroviral agent. Consult the full prescribing information for cobicistat for additional information. Pharmacokinetic data from the evaluation of atazanavir and cobicistat in a limited number of pregnant individuals showed a similar trend in lower exposures of the antiretroviral component, atazanavir.

Prospective pregnancy data from the APR are not sufficient to adequately assess the risk of birth defects or miscarriage. Atazanavir use during pregnancy has been evaluated in a limited number of individuals. Available data from the APR show no increase in the risk of overall major birth defects for atazanavir compared with the background rate for major birth defects of 2.7% in a U.S. reference population of the Metropolitan Atlanta Congenital Defects Program (MACDP) (*see Data*). The rate of miscarriage is not reported in the APR. The estimated background rate of miscarriage in clinically recognized pregnancies in the U.S. general population is 15–20%.

In animal reproduction studies, no evidence of adverse developmental outcomes was observed following oral administration of the components of EVOTAZ (atazanavir or cobicistat) to pregnant rats and rabbits (*see Data*). During organogenesis in the rat and rabbit, atazanavir exposures (AUC) were similar to those observed at the human clinical dose (300 mg/day atazanavir boosted with 100 mg/day ritonavir), while exposures were up to 1.4 (rats) and 3.3 (rabbits) times human exposures at the maximal recommended human dose (MRHD) of 150 mg (*see Data*).

### Clinical Considerations

EVOTAZ is not recommended for use during pregnancy and should not be initiated in pregnant individuals. An alternative regimen is recommended for individuals who become pregnant during therapy with EVOTAZ (*see Risk Summary*).

### *Maternal Adverse Reactions*

#### Atazanavir

Reports of lactic acidosis syndrome, sometimes fatal, and symptomatic hyperlactatemia have occurred in pregnant individuals using atazanavir in combination with nucleoside analogues, which are associated with an increased risk of lactic acidosis syndrome.

Hyperbilirubinemia occurs frequently in patients who take atazanavir, including pregnant individuals. Refer to the atazanavir prescribing information for use of atazanavir in pregnancy.

### *Fetal/Neonatal Adverse Reactions*

#### Atazanavir

Infants exposed to atazanavir *in utero* may develop severe hyperbilirubinemia during the first few days of life.

### Data

#### *Human Data*

#### Atazanavir

The APR has received prospective reports of live births following exposure to atazanavir-containing regimens during pregnancy, including 1361 exposures in the first trimester and 737 exposures in second/third trimester. Birth defects occurred in live births in 30 of 1361 (2.2%, 95% CI: 1.5% to 3.1%) with first trimester exposure to atazanavir-containing regimens and 17 of 737 (2.3%, 95% CI: 1.3% to 3.7%) with second/third trimester exposure to atazanavir-containing



regimens. There was no increase in the overall rate of birth defects for atazanavir compared with the background birth defect rate of 2.7% in the U.S. reference population of the MACDP.

#### Cobicistat

The APR has received prospective reports of live births following exposure to cobicistat-containing regimens during pregnancy, including 347 exposures in the first trimester and 79 exposures in the second/third trimester. Birth defects occurred in 13 of 347 (3.7%, 95% CI: 2.0% to 6.3%) live births with first trimester exposure and 1 of 79 (1.3%, 95% CI: 0.0% to 6.9%) with second/third trimester exposure to cobicistat-containing regimens. Among pregnant individuals in the U.S. reference population, the background rate of birth defects is 2.7%. There was no increase in the overall rate of birth defects for cobicistat compared with the background birth defect rate of 2.7% in the U.S. reference population of the MACDP. Methodological limitations of the APR include the use of MACDP as the external comparator group. Limitations of using an external comparator include differences in methodology and populations, as well as confounding due to the underlying disease.

#### *Animal Data*

##### Atazanavir

Atazanavir was administered orally to pregnant rats (at 0, 200, 600, and 1920 mg/kg/day) and rabbits (at 0, 4, 15, and 60 mg/kg/day) during organogenesis (on gestation Days 6 through 15 and 7 through 19, respectively). No significant toxicological effects were observed in embryo-fetal toxicity studies performed with atazanavir at exposures (AUC) approximately 1.2 times higher (rats) and 0.7 times (rabbits) human exposures at the MRHD. In a rat pre- and postnatal developmental study, atazanavir was administered orally at doses of 0, 50, 220, and 1000 mg/kg/day from gestation Day 6 to postnatal Day 20. At a maternal toxic dose (1000 mg/kg/day), atazanavir caused body weight loss or weight gain suppression in the animal offspring at atazanavir exposures (AUC) of approximately 1.3 times higher than human exposures at the MRHD.

##### Cobicistat

Cobicistat was administered orally to pregnant rats at doses of 0, 25, 50, 125 mg/kg/day on gestation Day 6 to 17. Maternal toxicity was noted at 125 mg/kg/day and was associated with increases in post-implantation loss and decreased fetal weights. No malformations were noted at doses up to 125 mg/kg/day. Systemic exposures (AUC) at 50 mg/kg/day in pregnant females were 1.4 times higher than the human exposures at the MRHD. In pregnant rabbits, cobicistat was administered orally at doses of 0, 20, 50, and 100 mg/kg/day during the gestation Days 7 to 20. No maternal or embryo/fetal effects were noted at the highest dose of 100 mg/kg/day. Systemic exposures (AUC) at 100 mg/kg/day were 3.3 times higher than exposures at the MRHD.

In a pre- and postnatal developmental study in rats, cobicistat was administered orally at doses of 0, 10, 30, and 75 mg/kg from gestation Day 6 to postnatal Day 20, 21, or 22. At doses of 75 mg/kg/day of cobicistat, neither maternal nor developmental toxicity was noted. Systemic exposures (AUC) at this dose were 0.9 times lower than exposures at the MRHD.

## 8.2 Lactation

### Risk Summary

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.

There is no information regarding the effects of EVOTAZ on the breastfed infant or on milk production.

Atazanavir has been detected in human milk. No data are available regarding atazanavir effects on milk production. Cobicistat is present in rat milk (*see Data*). There is no information regarding the presence of cobicistat in human milk, the effects on the breastfed infant, or the effects on milk production. Because of the potential for (1) HIV-1 transmission (in HIV-1 negative infants), (2) developing viral resistance (in HIV-1 positive infants), and (3) adverse reactions in a breastfed infant, instruct individuals with HIV-1 infection not to breastfeed.

### Data

#### *Animal Data*

Cobicistat: During the prenatal and postnatal development toxicology study at doses up to 75 mg/kg/day, mean cobicistat milk to plasma ratio of up to 1.9 was measured 2 hours after administration to rats on lactation Day 10.

## 8.3 Females and Males of Reproductive Potential

### *Contraception*

Atazanavir and cobicistat, components of EVOTAZ, interact with certain oral contraceptives [*see Contraindications (4) and Drug Interactions (7.3)*]. Nonhormonal forms of contraceptive should be considered.

## 8.4 Pediatric Use

The safety and effectiveness of EVOTAZ for the treatment of HIV-1 infection in pediatric subjects weighing at least 35 kg was established through a study with components of EVOTAZ. Use of EVOTAZ for this indication is supported by evidence from adequate and well-controlled studies in adults, and by pharmacokinetic, safety, and virologic data from an open-label trial of components of EVOTAZ (Study GS-US-216-0128) in pediatric subjects with HIV-1 infection aged 12 years and older. The safety in these subjects through 48 weeks was similar to that in antiretroviral treatment-naive adults [*see Adverse Reactions (6.1), Clinical Pharmacology (12.3), and Clinical Studies (14.2)*].

Safety and effectiveness of EVOTAZ in the pediatric population weighing less than 35 kg have not been established. Atazanavir, a component of EVOTAZ, is not recommended for use in pediatric patients below the age of 3 months due to the risk of kernicterus.

## 8.5 Geriatric Use

Clinical studies with the components of EVOTAZ did not include sufficient numbers of subjects aged 65 and older to determine whether they respond differently from younger subjects. In general,

appropriate caution should be exercised in the administration and monitoring of EVOTAZ in elderly patients reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy [see *Clinical Pharmacology (12.3)*].

## 8.6 Renal Impairment

EVOTAZ is not recommended for use in treatment-experienced patients with HIV-1 infection who have end-stage renal disease managed with hemodialysis [see *Dosage and Administration (2.3)*, *Warnings and Precautions (5.3)*, and *Clinical Pharmacology (12.3)*].

## 8.7 Hepatic Impairment

EVOTAZ is not recommended for use in patients with any degree of hepatic impairment [see *Dosage and Administration (2.4)*, *Warnings and Precautions (5.7)*, and *Clinical Pharmacology (12.3)*].

## 10 OVERDOSAGE

Treatment for overdose with EVOTAZ should consist of general supportive measures, including monitoring of vital signs and ECG, and observations of the patient's clinical status. There is no specific antidote for overdose with EVOTAZ. Since atazanavir is extensively metabolized by the liver and both atazanavir and cobicistat are highly bound plasma proteins, it is unlikely that EVOTAZ will be significantly removed by hemodialysis or peritoneal dialysis.

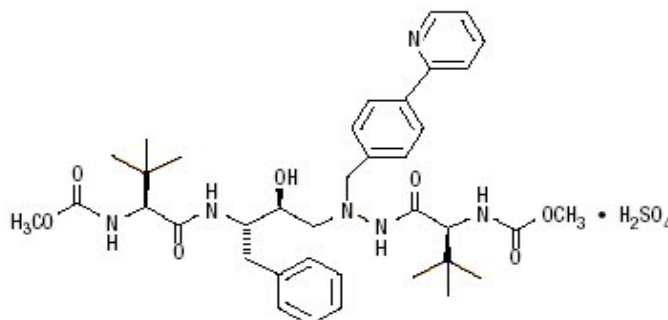
*Atazanavir:* Human experience of acute overdose with atazanavir is limited. A single self-administered overdose of 29.2 g of atazanavir in a patient with HIV-1 infection (73 times the 400-mg recommended dose of atazanavir administered without a CYP3A inhibitor) was associated with asymptomatic bifascicular block and PR interval prolongation. These events resolved spontaneously. At atazanavir doses resulting in high atazanavir exposures, jaundice due to indirect (unconjugated) hyperbilirubinemia (without associated liver function test changes) or PR interval prolongation may be observed [see *Warnings and Precautions (5.1, 5.10)* and *Clinical Pharmacology (12.2)*].

## 11 DESCRIPTION

EVOTAZ<sup>®</sup> is a fixed-dose tablet for oral administration containing the active ingredients atazanavir and cobicistat. Atazanavir is an HIV-1 protease inhibitor. Cobicistat is a mechanism-based inhibitor of cytochrome P450 (CYP) enzymes of the CYP3A family. EVOTAZ tablets contain 342 mg of atazanavir sulfate, equivalent to 300 mg of atazanavir, and 150 mg of cobicistat, as well as the following inactive ingredients in the tablet core: croscarmellose sodium, crospovidone, hydroxypropyl cellulose, magnesium stearate, microcrystalline cellulose, silicon dioxide, sodium starch glycolate, and stearic acid. The tablets are film-coated with a coating material containing the following inactive ingredients: hypromellose, red iron oxide, talc, titanium dioxide, triacetin.

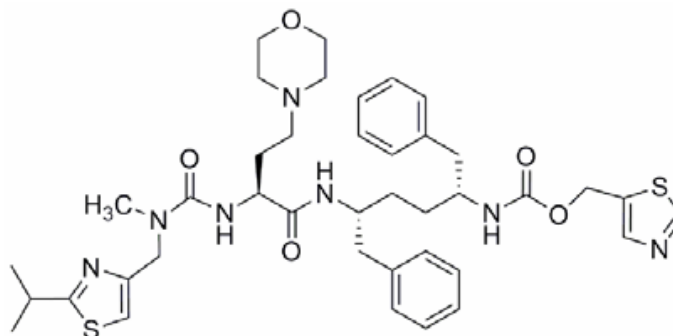
*Atazanavir:* Atazanavir is present as the sulfate salt. The chemical name for atazanavir sulfate is (3*S*,8*S*,9*S*,12*S*)-3,12-bis(1,1-dimethylethyl)-8-hydroxy-4,11-dioxo-9-(phenylmethyl)-6-[[4-(2-pyridinyl)phenyl]methyl]-2,5,6,10,13-pentaazatetradecanedioic acid dimethyl ester, sulfate (1:1).

Its molecular formula is  $C_{38}H_{52}N_6O_7 \cdot H_2SO_4$ , which corresponds to a molecular weight of 802.9 (sulfuric acid salt). The free base molecular weight is 704.9. Atazanavir sulfate has the following structural formula:



Atazanavir sulfate is a white to pale-yellow crystalline powder. It is slightly soluble in water (4-5 mg/mL, free base equivalent) with the pH of a saturated solution in water being about 1.9 at  $24 \pm 3^\circ C$ .

*Cobicistat*: The chemical name for cobicistat is 1,3-thiazol-5-ylmethyl [(2*R*,5*R*)-5-{[(2*S*)-2-[(methyl{2-(propan-2-yl)-1,3-thiazol-4-yl)methyl} carbamoyl)amino]-4-(morpholin-4-yl)butanoyl]amino}-1,6-diphenylhexan-2-yl]carbamate. It has a molecular formula of  $C_{40}H_{53}N_7O_5S_2$  and a molecular weight of 776.0. It has the following structural formula:



Cobicistat is adsorbed onto silicon dioxide. Cobicistat on silicon dioxide is a white to pale yellow solid with a solubility of 0.1 mg/mL in water at  $20^\circ C$ .

## 12 CLINICAL PHARMACOLOGY

### 12.1 Mechanism of Action

EVOTAZ is a fixed-dose tablet consisting of the HIV-1 antiretroviral drug, atazanavir and the CYP3A inhibitor, cobicistat [see *Clinical Pharmacology* (12.4)].

## 12.2 Pharmacodynamics

### Cardiac Electrophysiology

*Atazanavir:* In a thorough QT/QTc study in 72 healthy subjects (Study AI424-076), atazanavir 400 mg and 800 mg ( $C_{\max}$  was 1.2 times and 2.4 times the  $C_{\max}$  observed with the recommended dosage of EVOTAZ, respectively) without a CYP3A inhibitor did not prolong the QTc interval to any clinically relevant extent. Asymptomatic prolongation of the PR interval was noted in subjects receiving atazanavir. The mean ( $\pm$ SD) maximum change in PR interval from the predose for atazanavir 400 mg (n=65), atazanavir 800 mg (n=66), and placebo (n=67) was 24 ( $\pm$ 15) msec, 60 ( $\pm$ 25) msec, and 13 ( $\pm$ 11) msec, respectively. Steady state atazanavir exposures ( $C_{\max}$  and  $AUC_{\tau}$ ) observed in this healthy subject study exceeded those observed in subjects treated with atazanavir coadministered with cobicistat. There is limited information on the potential for a pharmacodynamic interaction in humans between atazanavir and other drugs that prolong the PR interval of the electrocardiogram [*see Warnings and Precautions (5.1)*].

In 1793 subjects with HIV-1 infection receiving antiretroviral regimens, QTc prolongation was comparable in the atazanavir-containing and comparator regimens. No atazanavir-treated healthy subject or subject with HIV-1 infection in clinical trials had a QTc interval  $>500$  msec [*see Warnings and Precautions (5.1)*].

*Cobicistat:* In a thorough QT/QTc study conducted in 48 healthy subjects (Study GS-US-216-0107), cobicistat 250 mg (1.7 times the recommended dosage in EVOTAZ) and 400 mg (2.7 times the recommended dosage in EVOTAZ) did not prolong the QTc interval to any clinically relevant extent. Asymptomatic prolongation of the PR interval was noted in subjects receiving cobicistat. The maximum mean (95% upper confidence bound) difference in PR from placebo after baseline correction was 9.5 (12.1) msec for 250 mg and 20.2 (22.8) msec for 400 mg dose of cobicistat.

### Effects on Serum Creatinine

The effect of cobicistat on serum creatinine was investigated in Study GS-US-216-0121, conducted in subjects with normal renal function (eGFR  $\geq 80$  mL/min, N=12) and mild-to-moderate renal impairment (eGFR 50-79 mL/min, N=18). A statistically significant change in estimated glomerular filtration rate, calculated by Cockcroft-Gault method (eGFR<sub>CG</sub>) from baseline, was observed after 7 days of treatment with cobicistat 150 mg among subjects with normal renal function ( $-9.9 \pm 13.1$  mL/min) and mild-to-moderate renal impairment ( $-11.9 \pm 7.0$  mL/min). No statistically significant changes in eGFR<sub>CG</sub> were observed compared to baseline for subjects with normal renal function or mild-to-moderate renal impairment 7 days after cobicistat was discontinued. The actual glomerular filtration rate, as determined by the clearance of probe drug iohexol, was not altered from baseline following treatment with cobicistat among subjects with normal renal function and mild-to-moderate renal impairment, indicating that cobicistat inhibits tubular secretion of creatinine, reflected as a reduction in eGFR<sub>CG</sub>, without affecting the actual glomerular filtration rate [*see Warnings and Precautions (5.3)*].

## 12.3 Pharmacokinetics

### Absorption, Distribution, Metabolism, and Excretion

The pharmacokinetic (PK) properties of the components of EVOTAZ (atazanavir 300 mg and cobicistat 150 mg) were evaluated in healthy adult subjects (Study AI424-511). Results are summarized in Table 6.

**Table 6: Pharmacokinetic Properties of the Components of EVOTAZ**

	Atazanavir	Cobicistat
<b>Absorption</b>		
T <sub>max</sub> (h)	2.0	2.0
Effect of light meal (relative to fasting) AUC ratio <sup>b</sup>	1.28 (1.17,1.40)	1.24 (1.15,1.34)
Effect of high fat meal (relative to fasting) AUC ratio <sup>b</sup>	0.96 (0.81,1.13)	1.12 (1.01,1.23)
Effect of light meal (relative to fasting) C24 ratio <sup>b</sup>	1.35 (1.22,1.50)	ND
Effect of high fat meal (relative to fasting) C24 ratio <sup>b</sup>	1.23 (1.02,1.48)	ND
<b>Distribution</b>		
% Bound to human plasma proteins	86	~98
Source of protein binding data	<i>In vitro</i>	<i>In vitro</i>
Blood-to-plasma ratio	ND	0.5
<b>Metabolism</b>		
Metabolism	CYP3A (major) Glucuronidation, N-dealkylation, hydrolysis, oxygenation with dehydrogenation (minor)	CYP3A (major) CYP2D6 (minor)
<b>Elimination</b>		
Major route of elimination	Metabolism	Metabolism
t <sub>1/2</sub> (h)	7.2 <sup>a</sup>	3.5
% Of dose excreted in urine	ND	8.2 <sup>c</sup>
% Of dose excreted in feces	ND	86.2 <sup>c</sup>

<sup>a</sup> Following EVOTAZ dosing under fasted conditions.

<sup>b</sup> Values refer to geometric mean ratio (fed / fasted) and (90% confidence interval).

<sup>c</sup> Dosing in mass balance study: cobicistat (single dose administration of [14C] cobicistat after multiple dosing of cobicistat for six days).

ND = not determined.

The pharmacokinetics of atazanavir was evaluated in subjects with HIV-1 infection who received atazanavir 300 mg coadministered with cobicistat 150 mg in combination with emtricitabine/tenofovir DF. The steady-state pharmacokinetic parameters of atazanavir coadministered with cobicistat are shown in Table 7 [see *Clinical Studies (14)*].

**Table 7: Pharmacokinetic Parameters (Mean ± SD) of Atazanavir in the Pharmacokinetic Substudy of Study GS-US-216-0114**

Parameter	Atazanavir coadministered with cobicistat and emtricitabine/tenofovir DF (n=22)
AUC (µg•h/mL)	46.13 ± 26.18
C <sub>max</sub> (µg/mL)	3.91 ± 1.94
C <sub>tau</sub> (µg/mL)	0.80 ± 0.72

### Specific Populations

#### *Pediatric*

In pediatric subjects aged 12 to less than 18 years who received atazanavir 300 mg coadministered with cobicistat 150 mg (N=12), atazanavir exposures (AUC<sub>tau</sub>, C<sub>max</sub>, and C<sub>tau</sub>) were 20-60% higher than in adults; the increases were not considered clinically significant (Table 8).

**Table 8 Multiple Dose Pharmacokinetic Parameters of Atazanavir Following Coadministration of Atazanavir with Cobicistat in Pediatric Subjects with HIV-1 Infection Weighing at Least 35 kg**

Atazanavir PK Parameter	Geometric Mean (CV%)	
	Pediatric subjects (N=12) <sup>a</sup>	Adult subjects (N=30) <sup>b</sup>
AUC <sub>tau</sub> (µg/hr/mL)	49.48 (49.1)	39.96 (52.1)
C <sub>max</sub> (µg/mL)	4.32 (49.9)	3.54 (45.8)
C <sub>tau</sub> (µg/mL)	0.91 (96.4)	0.58 (84.7)

CV=Coefficient of Variation

<sup>a</sup> From intensive PK analysis of Study GS-US-216-0128

<sup>b</sup> From pooled intensive PK analysis of trials with atazanavir + cobicistat.

#### *Renal Impairment*

*Atazanavir:* In healthy subjects, the renal elimination of unchanged atazanavir was approximately 7% of the administered dose. In study AI424-105, atazanavir was studied in adult subjects (n=20) with severe renal impairment (estimated creatinine clearance <30 mL/min, using 24 hour urinary creatinine and serum creatinine levels), including those on hemodialysis, at multiple doses of 400 mg once daily. The mean atazanavir C<sub>max</sub> was 9% lower, AUC was 19% higher, and C<sub>min</sub> was

96% higher in subjects with severe renal impairment not undergoing hemodialysis (n=10), than in age-, weight-, and gender-matched subjects with normal renal function. In a 4-hour dialysis session, 2.1% of the administered dose was removed. When atazanavir was administered either prior to, or following hemodialysis (n=10), the geometric means for  $C_{max}$ , AUC, and  $C_{min}$  were approximately 25% to 43% lower compared to subjects with normal renal function. The mechanism of this decrease is unknown.

*Cobicistat*: No clinically relevant differences in cobicistat pharmacokinetics were observed between subjects with severe renal impairment (estimated creatinine clearance <30 mL/min, using the Cockcroft-Gault method) and healthy subjects in Study GS-US-216-0124 [see *Use in Specific Populations* (8.6)].

### **Hepatic Impairment**

EVOTAZ has not been studied in patients with hepatic impairment.

*Atazanavir*: Increased concentrations of atazanavir are expected in those with moderately or severely impaired hepatic function (Study AI424-015).

*Cobicistat*: No clinically relevant differences in cobicistat pharmacokinetics were observed between subjects with moderate hepatic impairment (Child-Pugh Class B) and healthy subjects (Study GS-US-183-0133). The effect of severe hepatic impairment (Child-Pugh Class C) on the pharmacokinetics of cobicistat has not been studied [see *Use in Specific Populations* (8.7)].

### **Pregnancy and Postpartum**

Pharmacokinetic data from studies conducted in pregnant individuals receiving cobicistat showed substantially lower exposures during the second and third trimesters, and consequently also for the coadministered antiretroviral agent. Consult the full prescribing information for cobicistat for additional information. Pharmacokinetic data from the evaluation of atazanavir and cobicistat in a limited number of pregnant individuals showed a similar trend in lower exposures of the antiretroviral component, atazanavir.

### **Gender, Age, and Race**

*Atazanavir*: No clinically important differences in atazanavir pharmacokinetics were observed based on age or gender.

*Cobicistat*: No clinically relevant differences in cobicistat pharmacokinetics were observed based on race or gender.

### **Assessment of Drug Interactions**

Atazanavir has been shown *in vivo* not to induce its own metabolism, nor to increase the biotransformation of some drugs metabolized by CYP3A. In a multiple-dose study, atazanavir decreased the urinary ratio of endogenous 6 $\beta$ -OH cortisol to cortisol versus baseline, indicating that CYP3A production was not induced.

The effects of cobicistat on the exposure of coadministered drugs are summarized in Table 9.



**Table 9: Drug Interactions: Pharmacokinetic Parameters for Coadministered Drugs in the Presence of Cobicistat<sup>a,b</sup>**

Note: The information listed below is not a comprehensive list of all the available drug interaction data for concomitant medications with cobicistat-containing regimens. Please refer to the U.S. prescribing information for antiretroviral medications administered in combination with cobicistat for additional drug interaction information.

Coadministered Drug	Coadministered Drug Dose/Schedule	Cobicistat Dose/Schedule	Ratio (90% Confidence Interval) of Coadministered Drug Pharmacokinetic Parameters with/without cobicistat; No effect = 1.00	
			C <sub>max</sub>	AUC
atorvastatin	10 mg single dose (n=16)	150 mg QD (n=16)	18.85 <sup>b</sup> (13.53, 26.27)	9.22 <sup>b</sup> (7.58, 11.22)
desipramine	50 mg single dose (n=8)	150 mg QD (n=8)	1.24 (1.08, 1.44)	1.65 (1.36, 2.02)
digoxin	0.5 mg single dose (n=22)	150 mg QD (n=22)	1.41 (1.29, 1.55)	1.08 (1.00, 1.17)
drospirenone/ ethinyl estradiol	3 mg drospirenone single dose (n=14)	150 mg QD (n=14)	1.12 <sup>b</sup> (1.05, 1.19)	2.30 <sup>b</sup> (2.00, 2.64)
	0.02 ethinyl estradiol single dose (n=14)	150 mg QD (n=14)	0.82 <sup>b</sup> (0.76, 0.89)	0.78 <sup>b</sup> (0.73, 0.85)
efavirenz	600 mg single dose (n=17)	150 mg QD (n=17)	0.87 (0.80, 0.94)	0.93 (0.89, 0.97)
rosuvastatin	10 mg single dose (n=16)	150 mg QD (n=16)	10.58 <sup>b</sup> (8.72, 12.83)	3.42 <sup>b</sup> (2.87, 4.07)

<sup>a</sup> All interaction studies conducted in healthy subjects.

<sup>b</sup> Studies of cobicistat conducted in the presence of atazanavir 300 mg.

## 12.4 Microbiology

### Mechanism of Action

EVOTAZ is a fixed-dose tablet of atazanavir and the CYP3A inhibitor cobicistat. Atazanavir is an azapeptide HIV-1 protease inhibitor that selectively inhibits the virus-specific processing of viral Gag and Gag-Pol polyproteins in HIV-1-infected cells, thus preventing formation of mature virions. Cobicistat is a mechanism-based inhibitor of cytochrome P450 3A (CYP3A). Inhibition of CYP3A-mediated metabolism by cobicistat increases the systemic exposure of the CYP3A substrate atazanavir.

### Antiviral Activity in Cell Culture

Atazanavir exhibits anti-HIV-1 activity with a mean 50% effective concentration (EC<sub>50</sub> value) in the absence of human serum of 2 to 5 nM against a variety of laboratory and clinical HIV-1 isolates grown in peripheral blood mononuclear cells, macrophages, CEM-SS cells, and MT-2 cells. Atazanavir has activity against HIV-1 Group M subtype viruses A, B, C, D, AE, AG, F, G, and J isolates in cell culture. Atazanavir has variable activity against HIV-2 isolates (1.9-32 nM), with EC<sub>50</sub> values above the EC<sub>50</sub> values of failure isolates. Two-drug combination antiviral activity

studies with atazanavir showed no antagonism in cell culture with NNRTIs (delavirdine, efavirenz, and nevirapine), protease inhibitors (amprenavir, indinavir, lopinavir, nelfinavir, ritonavir, and saquinavir), NRTIs (abacavir, didanosine, emtricitabine, lamivudine, stavudine, tenofovir, zalcitabine, and zidovudine), the HIV-1 fusion inhibitor enfuvirtide, and two compounds used in the treatment of viral hepatitis, adefovir and ribavirin, without enhanced cytotoxicity.

Cobicistat does not inhibit recombinant HIV-1 protease in a biochemical assay and has no detectable antiviral activity in cell culture against HIV-1, hepatitis B or C virus. The antiviral activity in cell culture of selected HIV-1 antiretroviral drugs was not antagonized by cobicistat.

## Resistance

*In Cell Culture:* HIV-1 isolates with a decreased susceptibility to atazanavir have been selected in cell culture and obtained from patients treated with atazanavir coadministered with ritonavir. HIV-1 isolates with 93- to 183-fold reduced susceptibility to atazanavir from three different viral strains were selected in cell culture by 5 months. The substitutions in these HIV-1 viruses that contributed to atazanavir resistance include I50L, N88S, I84V, A71V, and M46I. Changes were also observed at the protease cleavage sites following drug selection. Recombinant viruses containing the I50L substitution without other major protease inhibitor substitutions were growth impaired and displayed increased susceptibility in cell culture to other protease inhibitors (amprenavir, indinavir, lopinavir, nelfinavir, ritonavir, and saquinavir). The I50L and I50V substitutions yielded selective resistance to atazanavir and amprenavir, respectively, and did not appear to be cross-resistant.

*Clinical Studies:* Resistance to EVOTAZ is driven by atazanavir as cobicistat lacks antiviral activity. For the complete atazanavir resistance-associated substitutions, refer to the atazanavir full prescribing information.

*Clinical Studies of Treatment-Naive Adult Subjects Receiving Atazanavir 300 mg Coadministered with Cobicistat 150 mg:* In an analysis of adult subjects who received atazanavir coadministered with cobicistat through Week 144 (Study GS-US-216-0114), evaluable genotypic data from paired baseline and treatment-failure isolates from subjects who had HIV-1 RNA greater than or equal to 400 copies/mL were available for all 21 virologic failures in this group (6%, 21/344). Among the 21 subjects, 3 developed the emtricitabine resistance-associated substitution M184V. No subject developed the tenofovir resistance-associated substitution K65R or K70E, or any primary resistance substitution associated with protease inhibitors. In the ritonavir group, evaluable genotypic data were available for all 19 virologic failures (5%, 19/348). Among the 19 subjects, 1 developed the emtricitabine resistance-associated substitution M184V with no tenofovir or protease inhibitor resistance-associated substitutions.

*Clinical Study of Pediatric Subjects Receiving Atazanavir Coadministered with Cobicistat:* In an as-treated analysis of pediatric subjects between the ages of 12 to less than 18 years who received atazanavir coadministered with cobicistat plus two NRTIs in Study GS-US-216-0128, 3 of 14 subjects qualified for resistance analysis through Week 48; 1 had evaluable data and no significant resistance-associated substitutions in protease or reverse transcriptase [see *Clinical Studies (14.2)*].

## Cross-Resistance

Cross-resistance among protease inhibitors has been observed. Baseline phenotypic and genotypic analyses of clinical isolates from atazanavir clinical trials of protease inhibitor-experienced subjects with HIV-1 infection showed that isolates cross-resistant to multiple protease inhibitors were cross-resistant to atazanavir. Greater than 90% of the isolates with substitutions that included I84V or G48V were resistant to atazanavir. Greater than 60% of isolates containing L90M, G73S/T/C, A71V/T, I54V, M46I/L, or a change at V82 were resistant to atazanavir, and 38% of isolates containing a D30N substitution in addition to other changes were resistant to atazanavir. Isolates resistant to atazanavir were also cross-resistant to other protease inhibitors with >90% of the isolates resistant to indinavir, lopinavir, nelfinavir, ritonavir, and saquinavir, and 80% resistant to amprenavir. In treatment-experienced patients, protease inhibitor-resistant viral isolates that developed the I50L substitution in addition to other protease inhibitor resistance-associated substitution were also cross-resistant to other protease inhibitors.

International AIDS Society (IAS)-defined protease inhibitor resistance substitutions, depending on the number and type, may confer a reduced virologic response to atazanavir. Please refer to the “Baseline Genotype/Phenotype and Virologic Outcome Analyses” section in the atazanavir full prescribing information.

## **13 NONCLINICAL TOXICOLOGY**

### **13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility**

#### Carcinogenesis

*Atazanavir:* Long-term carcinogenicity studies in mice and rats were carried out with atazanavir for two years. In the mouse study, drug-related increases in hepatocellular adenomas were found in females at 360 mg/kg/day. The systemic drug exposure (AUC) at the NOAEL in females, (120 mg/kg/day) was 2.8 times and in males (80 mg/kg/day) was 2.9 times higher than those in humans at the clinical dose (300 mg/day atazanavir coadministered with 100 mg/day ritonavir, nonpregnant patients). In the rat study, no drug-related increases in tumor incidence were observed at doses up to 1200 mg/kg/day, for which AUCs were 1.1 (males) or 3.9 (females) times those measured in humans at the clinical dose.

*Cobicistat:* In a long-term carcinogenicity study in mice, no drug-related increases in tumor incidence were observed at doses up to 50 and 100 mg/kg/day (males and females, respectively). Cobicistat exposures at these doses were approximately 7 (male) and 16 (females) times, respectively, the human systemic exposure at the therapeutic daily dose. In a long-term carcinogenicity study of cobicistat in rats, an increased incidence of follicular cell adenomas and/or carcinomas in the thyroid gland was observed at doses of 25 and 50 mg/kg/day in males, and at 30 mg/kg/day in females. The follicular cell findings are considered to be rat-specific, secondary to hepatic microsomal enzyme induction and thyroid hormone imbalance, and are not relevant for humans. At the highest doses tested in the rat carcinogenicity study, systemic exposures were approximately 2 times the human systemic exposure at the therapeutic daily dose.

## Mutagenesis

*Atazanavir*: Atazanavir tested positive in an *in vitro* clastogenicity test using primary human lymphocytes, in the absence and presence of metabolic activation. Atazanavir tested negative in the *in vitro* Ames reverse-mutation assay, *in vivo* micronucleus and DNA repair tests in rats, and *in vivo* DNA damage test in rat duodenum (comet assay).

*Cobicistat*: Cobicistat was not genotoxic in the reverse mutation bacterial test (Ames test), mouse lymphoma or rat micronucleus assays.

## Impairment of Fertility

*Atazanavir*: At the systemic drug exposure levels (AUC) 0.9 (in male rats) or 2.3 (in female rats) times that of the human clinical dose, (300 mg/day atazanavir coadministered with 100 mg/day ritonavir) significant effects on mating, fertility, or early embryonic development were not observed.

*Cobicistat*: Cobicistat did not affect fertility in male or female rats at daily exposures (AUC) approximately 3-fold higher than human exposures at the recommended 150 mg daily dose. Fertility was normal in the offspring of rats exposed daily from before birth (*in utero*) through sexual maturity at daily exposures (AUC) of approximately similar human exposures at the recommended 150 mg daily dose.

## 14 CLINICAL STUDIES

### 14.1 Clinical Trial Results in Treatment-Naive Adult Subjects with HIV-1 Infection – Study GS-US-216-0114

The safety and efficacy of atazanavir coadministered with cobicistat were evaluated in a randomized, double-blind, active-controlled trial (Study GS-US-216-0114 [NCT01108510]) in treatment-naive subjects with HIV-1 infection with baseline estimated creatinine clearance above 70 mL/min (N=692). Subjects were randomized in a 1:1 ratio to receive either atazanavir 300 mg coadministered with cobicistat 150 mg once daily or atazanavir 300 mg coadministered with ritonavir 100 mg once daily. All subjects received concomitant treatment with 300 mg of tenofovir DF and 200 mg of emtricitabine once a day administered as a single tablet. Randomization was stratified by screening HIV-1 RNA level ( $\leq 100,000$  copies/mL or  $> 100,000$  copies/mL).

The mean age of subjects was 37 years (range: 19-70); 83% were male, 60% were White, 18% were Black, and 12% were Asian. The mean baseline plasma HIV-1 RNA was 4.8  $\log_{10}$  copies/mL (range: 3.2-6.4). The mean baseline CD4+ cell count was 352 cells/mm<sup>3</sup> (range: 1-1455) and 17% had CD4+ cell counts  $\leq 200$  cells/mm<sup>3</sup>. Forty percent (40%) of patients had baseline viral loads  $> 100,000$  copies/mL.

Virologic outcomes in Study GS-US-216-0114 through Week 144 are presented in Table 10. In Study GS-US-216-0114, the mean increase from baseline in CD4+ cell count at Week 144 was 281 cells/mm<sup>3</sup> in patients receiving atazanavir coadministered with cobicistat and 297 cells/mm<sup>3</sup> in patients receiving atazanavir coadministered with ritonavir.

**Table 10: Virologic Outcomes of Randomized Treatment of Study GS-US-216-0114 in Treatment-Naive Adults with HIV-1 Infection at Week 144<sup>a</sup>**

	Atazanavir 300 mg coadministered with cobicistat 150 mg (once daily) + emtricitabine/tenofovir disoproxil fumarate (n=344)	Atazanavir 300 mg coadministered with ritonavir 100 mg + emtricitabine/tenofovir disoproxil fumarate (n=348)
HIV-1 RNA <50 copies/mL	72%	74%
Treatment Difference	-2.1% (95% CI = -8.7%, 4.5%)	
HIV-1 RNA ≥50 copies/mL <sup>b</sup>	8%	5%
No Virologic Data at Week 48 Window	20%	21%
Discontinued Study Drug Due to AE or Death <sup>c</sup>	11%	11%
Discontinued Study Drug Due to Other Reasons and Last Available HIV-1 RNA <50 copies/mL <sup>d</sup>	8%	10%
Missing Data During Window, but on Study Drug	<1%	<1%

<sup>a</sup> Week 144 window is between Day 967 and 1050 (inclusive).

<sup>b</sup> Includes subjects who had ≥50 copies/mL in the Week 48 window; subjects who discontinued early due to lack or loss of efficacy; subjects who discontinued for reasons other than an adverse event, death or lack or loss of efficacy and at the time of discontinuation had a viral value of ≥50 copies/mL.

<sup>c</sup> Includes subjects who discontinued due to adverse event or death at any time point from Day 1 through the time window if this resulted in no virologic data on treatment during the specified window. There were no deaths reported in Study GS-US-216-0114.

<sup>d</sup> Includes subjects who discontinued for reasons other than an adverse event, death, or lack or loss of efficacy (e.g., withdrew consent, lost to follow-up, etc).

## 14.2 Clinical Trial Results in Virologically Suppressed Pediatric Subjects with HIV-1 Infection – Study GS-US-216-0128

Study GS-US-216-0128 (NCT02016924) was a Phase 2/3 multicenter, open-label trial to evaluate the pharmacokinetics, safety, and efficacy of atazanavir coadministered with cobicistat in pediatric subjects ages 12 years and older with HIV-1 infection who were virologically suppressed and had a baseline estimated creatinine clearance  $\geq 90$  mL/min/1.73 m<sup>2</sup>. Subjects were on a stable antiretroviral regimen (for at least 3 months), consisting of atazanavir administered with ritonavir, combined with 2 nucleotide reverse transcriptase inhibitors (NRTIs). They were switched from ritonavir to cobicistat 150 mg once daily and continued atazanavir (N=14) and 2 NRTIs.

The mean age of subjects was 14 years (range 12–17 years); median weight was 53 kg; 71% were male, 57% were Asian, 29% were White, 14% were Black, and 71% were not Hispanic or Latino. At baseline, 13/14 subjects had plasma HIV-1 RNA <50 copies/mL and 1 subject had plasma HIV-1 RNA of 50 copies/mL.

In subjects who switched to atazanavir coadministered with cobicistat, 93% (13/14) of subjects remained suppressed (HIV-1 RNA <50 copies/mL), and 1 subject experienced virologic failure at Week 48. From a median baseline CD4+ cell count and CD4+% of 770 cells/mm<sup>3</sup> (range 486 to 1765 cells/mm<sup>3</sup>) and 33% (range 23% to 45%), respectively, the median change from baseline in CD4+ cell count and CD4+% at Week 48 was -60 cells/mm<sup>3</sup> (range -500 to 705 cells/mm<sup>3</sup>) and -0.3% (range -6% to 8%), respectively.

## **16 HOW SUPPLIED/STORAGE AND HANDLING**

EVOTAZ<sup>®</sup> tablets, 300 mg atazanavir and 150 mg cobicistat, are oval, biconvex, pink, film-coated, debossed with “3641” on one side and plain on the other side. Each bottle contains 30 tablets (NDC-0003-3641-11), a silica gel desiccant and is closed with a child-resistant closure.

Store EVOTAZ tablets at 25°C (77°F); excursions permitted between 15°C and 30°C (59°F and 86°F) [see USP Controlled Room Temperature]. Keep container tightly closed.

## **17 PATIENT COUNSELING INFORMATION**

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

### **Instructions for Use**

Advise patients to take EVOTAZ with food every day and that EVOTAZ must always be used in combination with other antiretroviral drugs. Inform patients to avoid missing doses as it can result in development of resistance, and not to discontinue therapy without consulting with their healthcare provider. Advise patients if a dose of EVOTAZ is missed, they should take the dose as soon as possible and then return to their normal schedule; however, if a dose is skipped, the patient should not double the next dose [see *Dosage and Administration (2.2, 2.3)*].

### **Drug Interactions**

EVOTAZ may interact with many drugs; therefore, inform patients of the potential for serious drug interactions with EVOTAZ, and that some drugs are contraindicated with EVOTAZ and other drugs require dosage adjustment. Advise patients to report to their healthcare provider the use of any other prescription, nonprescription medication, or herbal products, particularly St. John's wort.

Instruct patients receiving hormonal contraceptives to use additional or alternative non-hormonal contraceptive measures during therapy with EVOTAZ because no data are available to make recommendations regarding use of hormonal contraceptives and atazanavir coadministered with cobicistat [see *Contraindications (4), Warnings and Precautions (5.8, 5.9), and Drug Interactions (7)*].

### **Cardiac Conduction Abnormalities**

Inform patients that EVOTAZ may produce changes in the electrocardiogram (e.g., PR prolongation). Advise patients to consult their healthcare provider if they are experiencing symptoms such as dizziness or lightheadedness [see *Warnings and Precautions (5.1)*].

### Severe Skin Reactions

Inform patients that mild rashes without other symptoms have been reported with atazanavir use. These rashes go away within two weeks with no change in treatment. However, inform patients there have been reports of severe skin reactions (e.g., Stevens-Johnson syndrome, erythema multiforme, and toxic skin eruptions) with atazanavir use. Advise patients to seek medical evaluation immediately if signs or symptoms of severe skin reactions or hypersensitivity reactions develop (including, but not limited to, severe rash or rash accompanied by fever, general malaise, muscle or joint aches, blisters, oral lesions, conjunctivitis, or facial edema) [see *Warnings and Precautions* (5.2)].

### Chronic Kidney Disease

Inform patients that treatment with EVOTAZ may lead to the development of chronic kidney disease, and to maintain adequate hydration while taking EVOTAZ [see *Warnings and Precautions* (5.5)].

### Nephrolithiasis and Cholelithiasis

Inform patients that kidney stones and/or gallstones have been reported with atazanavir use. Some patients with kidney stones and/or gallstones required hospitalization for additional management and some had complications [see *Warnings and Precautions* (5.6)].

### Hyperbilirubinemia

Inform patients that asymptomatic elevations in indirect bilirubin have occurred in patients receiving atazanavir, a component of EVOTAZ. Tell patients this may be accompanied by yellowing of the skin or whites of the eyes and alternative antiretroviral therapy may be considered if they have cosmetic concerns [see *Warnings and Precautions* (5.10)].

### Immune Reconstitution Syndrome

Advise patients to inform their healthcare provider immediately of any symptoms of infection, as in some patients with advanced HIV-1 infection (AIDS), signs and symptoms of inflammation from previous infections may occur soon after anti-HIV-1 treatment is started [see *Warnings and Precautions* (5.11)].

### Fat Redistribution

Inform patients that redistribution or accumulation of body fat may occur in patients receiving antiretroviral therapy including protease inhibitors and that the cause and long-term health effects of these conditions are not known at this time [see *Warnings and Precautions* (5.13)].

### Not Recommended During Pregnancy

Advise patients that EVOTAZ is not recommended during pregnancy and to alert their healthcare provider if they get pregnant while taking EVOTAZ [see *Use in Specific Populations* (8.1)].

### Pregnancy Registry

Inform patients that there is a pregnancy exposure registry to monitor fetal outcomes of pregnant individuals exposed to EVOTAZ during pregnancy [see *Use in Specific Populations* (8.1)].

## Lactation

Advise individuals with HIV-1 infection not to breastfeed because HIV-1 can be passed to the baby in breast milk. Atazanavir, a component of EVOTAZ, can also be passed to the baby in breast milk, and it is not known whether it could harm the baby [*see Use in Specific Populations (8.2)*].



**PATIENT INFORMATION**  
**EVOTAZ® (EV-oh-taz)**  
**(atazanavir and cobicistat) tablet**

**What is EVOTAZ?**

EVOTAZ is a prescription medicine that is used with other HIV-1 medicines to treat HIV-1 infection in adults and children weighing at least 77 pounds (35 kg).

HIV-1 is the virus that causes Acquired Immunodeficiency Syndrome (AIDS).

EVOTAZ contains the prescription medicines atazanavir and cobicistat.

It is not known if EVOTAZ is safe and effective in children who weigh less than 77 pounds (35 kg).

**Do not take EVOTAZ if you:**

- are allergic to any of the ingredients in EVOTAZ. See the end of this leaflet for a complete list of ingredients in EVOTAZ.
- are taking any of the following medicines. EVOTAZ may cause serious life-threatening side effects or death when used with these medicines:
  - alfuzosin
  - carbamazepine
  - cisapride
  - colchicine, if you have liver or kidney problems
  - dronedarone hydrochloride
  - drospirenone and ethinyl estradiol
  - elbasvir and grazoprevir
  - ergot-containing medicines:
    - dihydroergotamine
    - ergotamine
    - methylergonovine
  - glecaprevir and pibrentasvir
  - indinavir
  - irinotecan
  - lovastatin
  - lomitapide
  - lurasidone
  - midazolam, when taken by mouth for sedation
  - nevirapine
  - phenobarbital
  - phenytoin
  - pimozide
  - ranolazine
  - rifampin
  - sildenafil, when used for the treatment of pulmonary arterial hypertension (PAH)
  - simvastatin
  - St. John's wort (*Hypericum perforatum*), or a product that contains St. John's wort
  - triazolam

**Before taking EVOTAZ, tell your healthcare provider about all of your medical conditions, including if you:**

- have heart problems
- have liver problems, including hepatitis B or C virus infection
- have kidney problems

- have diabetes
- have hemophilia
- are pregnant or plan to become pregnant. It is not known if EVOTAZ will harm your unborn baby.
  - **EVOTAZ should not be used during pregnancy**, because the EVOTAZ levels in your blood may be lower during pregnancy and may not control your HIV-1.
  - Tell your healthcare provider right away if you become pregnant during treatment with EVOTAZ.
  - Your healthcare provider may prescribe different medicines if you become pregnant during treatment with EVOTAZ.
  - People who are pregnant have developed a serious condition called lactic acidosis (a build-up of lactic acid in the blood) when taking EVOTAZ with other HIV-1 medicines called nucleoside analogues.
  - **Hormonal forms of birth control, such as injections, vaginal rings or implants, contraceptive patches, and some birth control pills may not work during treatment with EVOTAZ.** Talk to your healthcare provider about forms of birth control that may be used during treatment with EVOTAZ.
  - **Pregnancy Registry.** There is a pregnancy registry for people who take HIV-1 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.
- are breastfeeding or plan to breastfeed. Do not breastfeed if you take EVOTAZ.
  - You should not breastfeed if you have HIV-1 because of the risk of passing HIV-1 to your baby.
  - Talk to your healthcare provider about the best way to feed your baby.

**Tell your healthcare provider about all the medicines you take**, including prescription and over-the-counter medicines, vitamins, and herbal supplements. Some medicines interact with EVOTAZ. **Keep a list of your medicines to show your healthcare provider and pharmacist.**

- You can ask your healthcare provider or pharmacist for a list of medicines that interact with EVOTAZ.
- **Do not start taking a new medicine without telling your healthcare provider.** Your healthcare provider can tell you if it is safe to take EVOTAZ with other medicines.

#### **How should I take EVOTAZ?**

- Take EVOTAZ exactly as your healthcare provider tells you.
- Do not change your dose or stop taking EVOTAZ without talking to your healthcare provider.
- EVOTAZ must be used with other HIV-1 medicines.
- Take EVOTAZ 1 time a day with food.
- Do not miss a dose of EVOTAZ.
- When your EVOTAZ supply starts to run low, get more from your healthcare provider or pharmacy. This is very important because the amount of virus in your blood may increase if the medicine is stopped for even a short time. The virus may develop resistance to EVOTAZ and become harder to treat.
- If you miss a dose of EVOTAZ, take the dose as soon as possible and then return to your normal schedule.
- If a dose of EVOTAZ is missed, do not double the next dose.
- If you take too much EVOTAZ, call your healthcare provider or go to the nearest hospital emergency room right away.

#### **What are the possible side effects of EVOTAZ?**

**EVOTAZ can cause serious side effects, including:**

- **A change in the way your heart beats (heart rhythm change).** Tell your healthcare provider right away if you get dizzy or lightheaded. These could be symptoms of a heart problem.

- **Skin rash.** Skin rash is common with EVOTAZ but can sometimes be severe. Skin rash usually goes away within 2 weeks without any change in treatment. Severe rash may develop with other symptoms which could be serious. If you develop a severe rash or a rash with any of the following symptoms, call your healthcare provider or go to the nearest hospital emergency room right away:
  - general feeling of discomfort or “flu-like” symptoms
  - fever
  - muscle or joint aches
  - swelling of your face
  - red or inflamed eyes, like “pink eye” (conjunctivitis)
  - blisters
  - mouth sores
  - painful, warm, or red lump under your skin
- **Kidney problems.** EVOTAZ, when taken with certain other medicines, can cause new or worse kidney problems, including kidney failure. Your healthcare provider should check your kidneys before you start and while you are taking EVOTAZ.
- **Chronic kidney disease.** EVOTAZ may affect how well your kidneys work. Your healthcare provider will do blood and urine tests to check your kidneys before you start EVOTAZ and during treatment.
- **Kidney stones** have happened in some people who take atazanavir, one of the medicines in EVOTAZ. Tell your healthcare provider right away if you get symptoms of kidney stones, which may include pain in your low back or low stomach area, blood in your urine, or pain when you urinate.
- **Gallbladder disorders** have happened in some people who take atazanavir, one of the medicines in EVOTAZ. Tell your healthcare provider right away if you get symptoms of gallbladder problems, which may include:
  - pain in the right or middle upper stomach area
  - fever
  - nausea and vomiting
  - your skin or the white part of your eyes turns yellow
- **Liver problems.** If you have liver problems, including hepatitis B or C infection, your liver problems may get worse when you take EVOTAZ. Your healthcare provider will do blood tests to check your liver before you start EVOTAZ and during treatment. Tell your healthcare provider right away if you get any of the following symptoms:
  - your skin or the white part of your eyes turns yellow
  - dark (tea-colored) urine
  - light colored stools
  - nausea
  - itching
  - stomach-area pain
- **Yellowing of the skin or the white part of your eyes** is common with EVOTAZ but may be a symptom of a serious problem. These effects may be due to increases in bilirubin levels in the blood (bilirubin is made by the liver). Although these effects may not be damaging to your liver, skin, or eyes, tell your healthcare provider right away if your skin or the white part of your eyes turns yellow.
- **Changes in your immune system (Immune Reconstitution Syndrome)** can happen when you start taking HIV-1 medicines. Your immune system may get stronger and begin to fight infections that have been hidden in your body for a long time. Tell your healthcare provider if you start having new symptoms after starting your HIV-1 medicine.
- **Diabetes and high blood sugar (hyperglycemia)** have happened and worsened in some people who take protease inhibitor medicines like EVOTAZ. Some people have had to start taking medicine to treat diabetes or have had to change their diabetes medicine. Tell your healthcare provider if you notice an increase in thirst or if you start urinating more often while taking EVOTAZ.
- **Changes in body fat** can happen in people taking HIV-1 medicines. These changes may include increased amount of fat in the upper back and neck (“buffalo hump”), breast, and around the middle of your body (trunk). 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.

- **Increased bleeding problems in people with hemophilia** have happened when taking protease inhibitors including EVOTAZ.

**The most common side effects of EVOTAZ** include yellowing of the skin and rash.

These are not all the possible side effects of EVOTAZ.

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 EVOTAZ?**

- Store EVOTAZ tablets at room temperature between 68°F and 77°F (20°C and 25°C).
- Keep tablets in a tightly closed container.

**Keep EVOTAZ and all medicines out of the reach of children.**

**General information about the safe and effective use of EVOTAZ.**

Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. Do not use EVOTAZ for a condition for which it was not prescribed. Do not give EVOTAZ to other people, even if they have the same symptoms that you have. It may harm them.

You can ask your pharmacist or healthcare provider for information about EVOTAZ that is written for health professionals.

**What are the ingredients in EVOTAZ?**

**Active ingredients:** atazanavir and cobicistat

**Inactive ingredients:** croscarmellose sodium, crospovidone, hydroxypropyl cellulose, magnesium stearate, microcrystalline cellulose, silicon dioxide, sodium starch glycolate, and stearic acid. The film-coating contains hypromellose, red iron oxide, talc, titanium dioxide, triacetin.

Manufactured for:  
Bristol-Myers Squibb Company  
Princeton, NJ 08543 USA

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For more information, call 1-800-321-1335.

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

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