

**ABACAVIR- abacavir tablet, film coated**  
**Cipla USA Inc.**

**HIGHLIGHTS OF PRESCRIBING INFORMATION**

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

ABACAVIR tablets, for oral use  
Initial U.S. Approval: 1998

**WARNING: HYPERSENSITIVITY REACTIONS**

See full prescribing information for complete boxed warning.

- Serious and sometimes fatal hypersensitivity reactions have occurred with abacavir sulfate. (5.1)
- Hypersensitivity to abacavir is a multi-organ clinical syndrome. (5.1)
- Patients who carry the HLA-B\*5701 allele are at higher risk of experiencing a hypersensitivity reaction to abacavir. (5.1)
- Abacavir tablets contraindicated in patients with a prior hypersensitivity reaction to abacavir and in HLA-B\*5701-positive patients. (4)
- Discontinue abacavir tablets as soon as a hypersensitivity reaction is suspected. Regardless of HLA-B\*5701 status, permanently discontinue abacavir tablets if hypersensitivity cannot be ruled out, even when other diagnoses are possible. (5.1)
- Following a hypersensitivity reaction to abacavir, NEVER restart abacavir tablets or any other abacavir-containing product. (5.1)

**INDICATIONS AND USAGE**

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

**DOSAGE AND ADMINISTRATION**

- Before initiating abacavir tablets, screen for the HLA-B\*5701 allele. (2.1)
- Adults: 600 mg daily, administered as either 300 mg twice daily or 600 mg once daily. (2.2)
- Pediatric Patients Aged 3 Months and Older: Administered either once or twice daily. Dose should be calculated on body weight (kg) and should not exceed 600 mg daily. (2.3)
- Patients with Hepatic Impairment: Mild hepatic impairment – 200 mg twice daily. (2.4)

**DOSAGE FORMS AND STRENGTHS**

Tablets: 300 mg scored (3)

**CONTRAINDICATIONS**

- Presence of HLA-B\*5701 allele. (4)
- Prior hypersensitivity reaction to abacavir. (4)
- Moderate or severe hepatic impairment. (4)

**WARNINGS AND PRECAUTIONS**

- Lactic acidosis and severe hepatomegaly with steatosis, including fatal cases, have been reported with the use of nucleoside analogues. (5.2)
- Immune reconstitution syndrome has been reported in patients treated with combination antiretroviral therapy. (5.3)

**ADVERSE REACTIONS**

- The most commonly reported adverse reactions of at least moderate intensity (incidence greater than or equal to 10% in adult HIV-1 clinical trials were nausea, headache, malaise and fatigue, nausea and vomiting, and dreams/sleep disorders. (6.1)
- The most commonly reported adverse reactions of at least moderate intensity (incidence greater than or equal to 5% in pediatric HIV-1 clinical trials were fever and/or chills, nausea and vomiting, skin rashes, and ear/nose/throat infections. (6.2)

To report SUSPECTED ADVERSE REACTIONS, contact Cipla Ltd. at 1-866-604-3268 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).

**DRUG INTERACTIONS**

- Methadone: An increased methadone dose may be required in a small number of patients. (7.1)
- Riociguat: The riociguat dose may need to be reduced. (7.2)

**USE IN SPECIFIC POPULATIONS**

- Lactation: Women infected with HIV should be instructed not to breastfeed due to potential for HIV transmission. (8.2)

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

Revised: 12/2020

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## FULL PRESCRIBING INFORMATION

### WARNING HYPERSENSITIVITY REACTIONS

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

Patients who carry the HLA-B\*5701 allele are at a higher risk of a hypersensitivity reaction to abacavir; although, hypersensitivity reactions have occurred in patients who do not carry the HLA-B\*5701 allele [see *Warnings and Precautions (5.1)*].

Abacavir is contraindicated in patients with a prior hypersensitivity reaction to abacavir and in HLA-B\*5701-positive patients [see *Contraindications (4)*, *Warnings and Precautions (5.1)*]. All patients should be screened for the HLA-B\*5701 allele prior to initiating therapy with abacavir or reinitiation of therapy with abacavir, unless patients have a previously documented HLA-B\*5701 allele assessment. Discontinue abacavir tablets immediately if a hypersensitivity reaction is suspected, regardless of HLA-B\*5701 status and even when other diagnoses are possible [see *Contraindications (4)*, *Warnings and Precautions (5.1)*].

Following a hypersensitivity reaction to abacavir, NEVER restart abacavir tablets or any other abacavir-containing product because more severe symptoms, including death can occur within hours. Similar severe reactions have also occurred rarely following the reintroduction of abacavir-containing products in patients who have no history of abacavir hypersensitivity [see *Warnings and Precautions (5.1)*].

## 1 INDICATIONS AND USAGE

Abacavir tablets USP 300 mg, in combination with other antiretroviral agents, are indicated for the treatment of human immunodeficiency virus (HIV-1) infection.

## 2 DOSAGE AND ADMINISTRATION

### 2.1 Screening for HLA-B\*5701 Allele prior to Starting Abacavir tablets

Screen for the HLA-B\*5701 allele prior to initiating therapy with abacavir tablets [see *Boxed Warning, Warnings and Precautions (5.1)*].

### 2.2 Recommended Dosage for Adults Patients

The recommended dosage of abacavir sulfate for adults is 600 mg daily, administered orally as either 300 mg twice daily or 600 mg once daily, in combination with other antiretroviral agents.

### 2.3 Recommended Dosage for Pediatric Patients

The recommended dosage of abacavir sulfate in HIV-1-infected pediatric patients aged 3 months and older is 8 mg per kg orally twice daily or 16 mg per kg orally once-daily (up to a maximum of 600 mg daily) in combination with other antiretroviral agents.

Abacavir tablet is also available as a scored tablet for HIV-1-infected pediatric patients weighing greater than or equal to 14 kg for whom a solid dosage form is appropriate. Before prescribing abacavir tablets, children should be assessed for the ability to swallow tablets. If a child is unable to reliably swallow abacavir tablets, the oral solution formulation should be prescribed. The

recommended oral dosage of abacavir tablets for HIV-1-infected pediatric patients is presented in Table 1.

**Table 1. Dosing Recommendations for Abacavir Scored Tablets in Pediatric Patients**

Weight (kg)	Once-Daily Dosing Regimen*	Twice-Daily Dosing Regimen		
		AM Dose	PM Dose	Total Daily Dose
14 to <20	1 tablet (300 mg)	½ tablet (150 mg)	½ tablet (150 mg)	300 mg
≥20 to <25	1½ tablets (450 mg)	½ tablet (150 mg)	1 tablet (300 mg)	450 mg
≥25	2 tablets (600 mg)	1 tablet (300 mg)	1 tablet (300 mg)	600 mg

\* Data regarding the efficacy of once-daily dosing is limited to subjects who transitioned from twice-daily dosing to once-daily dosing after 36 weeks of treatment [see *Clinical Studies (14.2)*].

#### 2.4 Recommended Dosage for Patients with Hepatic Impairment

The recommended dose of abacavir sulfate in patients with mild hepatic impairment (Child-Pugh Class A) is 200 mg twice daily. To enable dose reduction, abacavir oral solution (10 mL twice daily) should be used for the treatment of these patients. The safety, efficacy, and pharmacokinetic properties of abacavir have not been established in patients with moderate to severe hepatic impairment; therefore, abacavir sulfate is contraindicated in these patients.

### 3 DOSAGE FORMS AND STRENGTHS

Abacavir tablets contain 300 mg of abacavir as abacavir sulfate. The tablets are yellow coloured, capsule shaped, biconvex, film coated, having scoreline on both sides with "5" and "14" debossed on either side of scoreline on one side.

### 4 CONTRAINDICATIONS

Abacavir tablet is contraindicated in patients:

- who have the HLA-B\*5701 allele [see *Warnings and Precautions (5.1)*].
- with prior hypersensitivity reaction to abacavir [see *Warnings and Precautions (5.1)*].
- with moderate or severe hepatic impairment [see *Use in Specific Populations (8.6)*].

### 5 WARNINGS AND PRECAUTIONS

#### 5.1 Hypersensitivity Reactions

Serious and sometimes fatal hypersensitivity reactions have occurred with abacavir sulfate. These hypersensitivity reactions have included multi-organ failure and anaphylaxis and typically occurred within the first 6 weeks of treatment with abacavir sulfate (median time to onset was 9 days); although abacavir hypersensitivity reactions have occurred any time during treatment [see *Adverse Reactions (6.1)*]. Patients who carry the HLA-B\*5701 allele are at a higher risk of abacavir hypersensitivity reactions; although, patients who do not carry the HLA-B\*5701 allele have developed hypersensitivity reactions. Hypersensitivity to abacavir was reported in approximately 206 (8%) of 2,670 patients in 9 clinical trials with abacavir-containing products where HLA-B\*5701 screening was not performed. The incidence of suspected abacavir hypersensitivity reactions in clinical trials was 1% when subjects carrying the HLA-B\*5701 allele were excluded. In any patient treated with abacavir, the clinical diagnosis of hypersensitivity reaction must remain the basis of clinical decision making.

Due to the potential for severe, serious, and possibly fatal hypersensitivity reactions with abacavir sulfate:

- All patients should be screened for the HLA-B\*5701 allele prior to initiating therapy with abacavir tablets or reinitiation of therapy with abacavir tablets, unless patients have a previously documented HLA-B\*5701 allele assessment.
- Abacavir tablet is contraindicated in patients with a prior hypersensitivity reaction to abacavir and in HLA-B\*5701-positive patients.
- Before starting abacavir tablets, review medical history for prior exposure to any abacavir-containing product. NEVER restart abacavir tablets or any other abacavir-containing product following a hypersensitivity reaction to abacavir, regardless of HLA-B\*5701 status.
- To reduce the risk of a life-threatening hypersensitivity reaction, regardless of HLA-B\*5701 status, discontinue abacavir tablets immediately if a hypersensitivity reaction is suspected, even when other diagnoses are possible (e.g., acute onset respiratory diseases such as pneumonia, bronchitis, pharyngitis, or influenza; gastroenteritis; or reactions to other medications).
- If a hypersensitivity reaction cannot be ruled out, do not restart abacavir tablets or any other abacavir-containing products because more severe symptoms which may include life-threatening hypotension and death, can occur within hours.
- If a hypersensitivity reaction is ruled out, patients may restart abacavir tablets. Rarely, patients who have stopped abacavir for reasons other than symptoms of hypersensitivity have also experienced life-threatening reactions within hours of reinitiating abacavir therapy. Therefore, reintroduction of abacavir tablets or any other abacavir-containing product is recommended only if medical care can be readily accessed.
- A Medication Guide and Warning Card that provide information about recognition of hypersensitivity reactions should be dispensed with each new prescription and refill.

#### 5.2 Lactic Acidosis and Severe Hepatomegaly with Steatosis

Lactic acidosis and severe hepatomegaly with steatosis, including fatal cases, have been reported with the use of nucleoside analogues, including abacavir. A majority of these cases have been in women. Female sex and obesity may be risk factors for the development of lactic acidosis and severe

hepatomegaly with steatosis in patients treated with antiretroviral nucleoside analogues. Treatment with abacavir tablets should be suspended in any patient who develops clinical or laboratory findings suggestive of lactic acidosis or pronounced hepatotoxicity, which may include hepatomegaly and steatosis even in the absence of marked transaminase elevation

### 5.3 Immune Reconstitution Syndrome

Immune reconstitution syndrome has been reported in patients treated with combination antiretroviral therapy, including abacavir sulfate. During the initial phase of combination antiretroviral treatment, patients whose immune systems respond may develop an inflammatory response to indolent or residual opportunistic infections (such as *Mycobacterium avium* infection, cytomegalovirus, *Pneumocystis jirovecii* pneumonia [PCP], or tuberculosis), which may necessitate further evaluation and treatment.

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

### 5.4 Myocardial Infarction

Several prospective, observational, epidemiological studies have reported an association with the use of abacavir and the risk of myocardial infarction (MI). Meta-analyses of randomized, controlled, clinical trials have observed no excess risk of MI in abacavir-treated subjects as compared with control subjects. To date, there is no established biological mechanism to explain a potential increase in risk. In totality, the available data from the observational studies and from controlled clinical trials show inconsistency; therefore, evidence for a causal relationship between abacavir treatment and the risk of MI is inconclusive.

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

## 6 ADVERSE REACTIONS

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

- Serious and sometimes fatal hypersensitivity reactions [see *Boxed Warning, Warnings and Precautions (5.1)*].
- Lactic acidosis and severe hepatomegaly with steatosis [see *Warnings and Precautions (5.2)*].
- Immune reconstitution syndrome [see *Warnings and Precautions (5.3)*].
- Myocardial infarction [see *Warnings and Precautions (5.4)*].

### 6.1 Clinical Trials Experience in Adult Subjects

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

#### Serious and Fatal Abacavir-Associated Hypersensitivity Reactions

In clinical trials, serious and sometimes fatal hypersensitivity reactions have occurred with abacavir [see *Boxed Warning, Warnings and Precautions (5.1)*]. These reactions have been characterized by 2 or more of the following signs or symptoms: (1) fever; (2) rash; (3) gastrointestinal symptoms (including nausea, vomiting, diarrhea, or abdominal pain); (4) constitutional symptoms (including generalized malaise, fatigue, or achiness); (5) respiratory symptoms (including dyspnea, cough, or pharyngitis). Almost all abacavir hypersensitivity reactions include fever and/or rash as part of the syndrome.

Other signs and symptoms have included lethargy, headache, myalgia, edema, arthralgia, and paresthesia. Anaphylaxis, liver failure, renal failure, hypotension, adult respiratory distress syndrome, respiratory failure, myolysis, and death have occurred in association with these hypersensitivity reactions. Physical findings have included lymphadenopathy, mucous membrane lesions (conjunctivitis and mouth ulcerations), and maculopapular or urticarial rash (although some patients had other types of rashes and others did not have a rash). There were reports of erythema multiforme. Laboratory abnormalities included elevated liver chemistries, elevated creatine phosphokinase, elevated creatinine, and lymphopenia, and abnormal chest x-ray findings (predominantly infiltrates, which were localized).

#### Additional Adverse Reactions with Use of Abacavir sulfate

*Therapy-Naive Adults:* Treatment-emergent clinical adverse reactions (rated by the investigator as moderate or severe) with a greater than or equal to 5% frequency during therapy with abacavir sulfate 300 mg twice daily, lamivudine 150 mg twice daily, and efavirenz 600 mg daily compared with zidovudine 300 mg twice daily, lamivudine 150 mg twice daily, and efavirenz 600 mg daily from CNA30024 are listed in Table 2.

**Table 2. Treatment-Emergent (All Causality) Adverse Reactions of at Least Moderate Intensity (Grades 2-4, Greater than or Equal to 5% Frequency) in Therapy-Naive Adults (CNA30024\*) through 48 Weeks of Treatment**

Adverse Reaction	Abacavir sulfate plus Lamivudine plus Efavirenz (n = 324)	Zidovudine plus Lamivudine plus Efavirenz (n = 325)
Dreams/sleep disorders	10%	10%
Drug hypersensitivity	9%	<1%†
Headaches/migraine	7%	11%
Nausea	7%	11%
Fatigue/malaise	7%	10%
Diarrhea	7%	6%
Rashes	6%	12%

Abdominal pain/gastritis/ gastrointestinal signs and symptoms	6%	8%
Depressive disorders	6%	6%
Dizziness	6%	6%
Musculoskeletal pain	6%	5%
Bronchitis	4%	5%
Vomiting	2%	9%

\* This trial used double-blind ascertainment of suspected hypersensitivity reactions. During the blinded portion of the trial, suspected hypersensitivity to abacavir was reported by investigators in 9% of 324 subjects in the abacavir group and 3% of 325 subjects in the zidovudine group.

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

Treatment-emergent clinical adverse reactions (rated by the investigator as moderate or severe) with a greater than or equal to 5% frequency during therapy with abacavir sulfate 300 mg twice daily, lamivudine 150 mg twice daily, and zidovudine 300 mg twice daily compared with indinavir 800 mg 3 times daily, lamivudine 150 mg twice daily, and zidovudine 300 mg twice daily from CNA3005 are listed in Table 3.

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

Adverse Reaction	Abacavir sulfate plus Lamivudine/Zidovudine (n = 262)	Indinavir plus Lamivudine/Zidovudine (n = 264)
Nausea	19%	17%
Headache	13%	9%
Malaise and fatigue	12%	12%
Nausea and vomiting	10%	10%
Hypersensitivity reaction	8%	2%
Diarrhea	7%	5%
Fever and/or chills	6%	3%
Depressive disorders	6%	4%
Musculoskeletal pain	5%	7%
Skin rashes	5%	4%
Ear/nose/throat infections	5%	4%
Viral respiratory infections	5%	5%
Anxiety	5%	3%
Renal signs/symptoms	<1%	5%
Pain (non-site-specific)	<1%	5%

Five subjects receiving abacavir sulfate in CNA3005 experienced worsening of pre-existing depression compared with none in the indinavir arm. The background rates of pre-existing depression were similar in the 2 treatment arms.

*Abacavir sulfate Once Daily versus Abacavir sulfate Twice Daily (CNA30021):* Treatment-emergent clinical adverse reactions (rated by the investigator as at least moderate) with a greater than or equal to 5% frequency during therapy with abacavir sulfate 600 mg once daily or abacavir sulfate 300 mg twice daily, both in combination with lamivudine 300 mg once daily and efavirenz 600 mg once daily from CNA30021, were similar. For hypersensitivity reactions, subjects receiving abacavir sulfate once daily showed a rate of 9% in comparison with a rate of 7% for subjects receiving abacavir sulfate twice daily. However, subjects receiving abacavir sulfate 600 mg once daily experienced a significantly higher incidence of severe drug hypersensitivity reactions and severe diarrhea compared with subjects who received abacavir sulfate 300 mg twice daily. Five percent (5%) of subjects receiving abacavir sulfate 600 mg once daily had severe drug hypersensitivity reactions compared with 2% of subjects receiving abacavir sulfate 300 mg twice daily. Two percent (2%) of subjects receiving abacavir sulfate 600 mg once daily had severe diarrhea while none of the subjects receiving abacavir sulfate 300 mg twice daily had this event.

*Laboratory Abnormalities:* Laboratory abnormalities (Grades 3-4) in therapy-naïve adults during therapy with abacavir sulfate 300 mg twice daily, lamivudine 150 mg twice daily, and efavirenz 600 mg daily compared with zidovudine 300 mg twice daily, lamivudine 150 mg twice daily, and efavirenz 600 mg daily from CNA30024 are listed in Table 4.

**Table 4. Laboratory Abnormalities (Grades 3-4) in Therapy-Naïve Adults (CNA30024) through 48 Weeks of Treatment**

Grade 3/4 Laboratory Abnormalities	Abacavir sulfate plus Lamivudine plus Efavirenz (n = 324)	Zidovudine plus Lamivudine plus Efavirenz (n = 325)
Elevated CPK (>4 X ULN)	8%	8%
Elevated ALT (>5 X ULN)	6%	6%
Elevated AST (>5 X ULN)	6%	5%
Hypertriglyceridemia (>750 mg/dL)	6%	5%
Hyperamylasemia (>2 X ULN)	4%	5%
Neutropenia (ANC <750/ mm <sup>3</sup> )	2%	4%
Anemia (Hgb ≤6.9 gm/dL)	<1%	2%
Thrombocytopenia (Platelets <50,000/ mm <sup>3</sup> )	1%	<1%

Leukopenia (WBC $\leq$ 1,500/mm <sup>3</sup> )	<1%	2%
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ULN = Upper limit of normal

n = Number of subjects assessed.

Laboratory abnormalities in CNA3005 are listed in Table 5.

**Table 5. Treatment-Emergent Laboratory Abnormalities (Grades 3-4) in CNA3005**

Grade 3/4 Laboratory Abnormalities	Abacavir sulfate plus Lamivudine/Zidovudine (n = 262)	Indinavir plus Lamivudine/Zidovudine (n = 264)
Elevated CPK (>4 x ULN)	18 (7%)	18 (7%)
ALT (>5.0 x ULN)	16 (6%)	16 (6%)
Neutropenia (<750/mm <sup>3</sup> )	13 (5%)	13 (5%)
Hypertriglyceridemia (>750 mg/dL)	5 (2%)	3 (1%)
Hyperamylasemia (>2.0 x ULN)	5 (2%)	1 (<1%)
Hyperglycemia (>13.9 mmol/L)	2 (<1%)	2 (<1%)
Anemia (Hgb 6.9 g/dL)	0 (0%)	3 (1%)

ULN = Upper limit of normal

n = Number of subjects assessed.

The frequencies of treatment-emergent laboratory abnormalities were comparable between treatment groups in CNA30021.

## 6.2 Clinical Trials Experience in Pediatric Subjects

### Therapy-Experienced Pediatric Subjects (Twice-Daily Dosing)

Treatment-emergent clinical adverse reactions (rated by the investigator as moderate or severe) with a greater than or equal to 5% frequency during therapy with abacavir sulfate 8 mg per kg twice daily, lamivudine 4 mg per kg twice daily, and zidovudine 180 mg per m<sup>2</sup> twice daily compared with lamivudine 4 mg per kg twice daily and zidovudine 180 mg per m<sup>2</sup> twice daily from CNA3006 are listed in Table 6.

**Table 6. Treatment-Emergent (All Causality) Adverse Reactions of at Least Moderate Intensity (Grades 2-4, Greater than or Equal to 5% Frequency) in Therapy-Experienced Pediatric Subjects (CNA3006) through 16 Weeks of Treatment**

Adverse Reaction	Abacavir sulfate plus Lamivudine plus Zidovudine (n = 102)	Lamivudine plus Zidovudine (n = 103)
Fever and/or chills	9%	7%
Nausea and vomiting	9%	2%
Skin rashes	7%	1%
Ear/nose/throat infections	5%	1%
Pneumonia	4%	5%
Headache	1%	5%

**Laboratory Abnormalities:** In CNA3006, laboratory abnormalities (anemia, neutropenia, liver function test abnormalities, and CPK elevations) were observed with similar frequencies as in a trial of therapy-naïve adults (CNA30024). Mild elevations of blood glucose were more frequent in pediatric subjects receiving abacavir sulfate (CNA3006) as compared with adult subjects (CNA30024).

### Other Adverse Events

In addition to adverse reactions and laboratory abnormalities reported in Tables 2, 3, 4, 5, and 6, other adverse reactions observed in the expanded access program were pancreatitis and increased GGT.

**Pediatric Subjects Once-Daily versus Twice-Daily Dosing (COL105677):** The safety of once-daily compared with twice-daily dosing of abacavir was assessed in the ARROW trial. Primary safety assessment in the ARROW trial was based on Grade 3 and Grade 4 adverse events. The frequency of Grade 3 and 4 adverse events was similar among subjects randomized to once-daily dosing compared with subjects randomized to twice-daily dosing. One event of Grade 4 hepatitis in the once-daily cohort was considered as uncertain causality by the investigator and all other Grade 3 or 4 adverse events were considered not related by the investigator.

## 6.3 Postmarketing Experience

The following adverse reactions have been identified during postmarketing use of abacavir sulfate. Because these reactions are reported voluntarily from a population of unknown size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposures.

### Body as a Whole

Redistribution/accumulation of body fat.

### Cardiovascular

Myocardial infarction.

### Hepatic

Lactic acidosis and hepatic steatosis [see *Warnings and Precautions* (5.2)].

#### Skin

Suspected Stevens-Johnson syndrome (SJS) and toxic epidermal necrolysis (TEN) have been reported in patients receiving abacavir primarily in combination with medications known to be associated with SJS and TEN, respectively. Because of the overlap of clinical signs and symptoms between hypersensitivity to abacavir and SJS and TEN, and the possibility of multiple drug sensitivities in some patients, abacavir should be discontinued and not restarted in such cases.

There have also been reports of erythema multiforme with abacavir use [see *Adverse Reactions* (6.1)].

## 7 DRUG INTERACTIONS

### 7.1 Methadone

In a trial of 11 HIV-1-infected subjects receiving methadone-maintenance therapy with 600 mg of abacavir sulfate twice daily (twice the currently recommended dose), oral methadone clearance increased [see *Clinical Pharmacology* (12.3)]. This alteration will not result in a methadone dose modification in the majority of patients; however, an increased methadone dose may be required in a small number of patients.

### 7.2 Riociguat

Coadministration with fixed-dose abacavir/dolutegravir/lamivudine resulted in increased riociguat exposure, which may increase the risk of riociguat adverse reactions [see *Clinical Pharmacology* (12.3)]. The riociguat dose may need to be reduced. See full prescribing information for ADEMPAS (riociguat).

## 8 USE IN SPECIFIC POPULATIONS

### 8.1 Pregnancy

#### Pregnancy Exposure Registry

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

#### Risk Summary

Available data from the APR show no difference in the overall risk of birth defects for abacavir compared with the background rate for birth defects of 2.7% in the Metropolitan Atlanta Congenital Defects Program (MACDP) reference population (see *Data*). The APR uses the MACDP as the U.S. reference population for birth defects in the general population. The MACDP evaluates women and infants from a limited geographic area and does not include outcomes for births that occurred at less than 20 weeks' gestation. 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% to 20%. The background risk for major birth defects and miscarriage for the indicated population is unknown.

In animal reproduction studies, oral administration of abacavir to pregnant rats during organogenesis resulted in fetal malformations and other embryonic and fetal toxicities at exposures 35 times the human exposure (AUC) at the recommended clinical daily dose. However, no adverse developmental effects were observed following oral administration of abacavir to pregnant rabbits during organogenesis, at exposures approximately 9 times the human exposure (AUC) at the recommended clinical dose (see *Data*).

#### Data

*Human Data:* Based on prospective reports to the APR of exposures to abacavir during pregnancy resulting in live births (including over 1,300 exposed in the first trimester and over 1,300 exposed in second/third trimester), there was no difference between the overall risk of birth defects for abacavir compared with the background birth defect rate of 2.7% in the U.S. reference population of the MACDP. The prevalence of defects in live births was 3.2% (95% CI: 2.3% to 4.3%) following first trimester exposure to abacavir-containing regimens and 2.9% (95% CI: 2.1% to 4.0%) following second/third trimester exposure to abacavir-containing regimens.

Abacavir has been shown to cross the placenta and concentrations in neonatal plasma at birth were essentially equal to those in maternal plasma at delivery [see *Clinical Pharmacology* (12.3)].

*Animal Data:* Abacavir was administered orally to pregnant rats (at 100, 300, and 1,000 mg per kg per day) and rabbits (at 125, 350, or 700 mg per kg per day) during organogenesis (on Gestation Days 6 through 17 and 6 through 20, respectively). Fetal malformations (increased incidences of fetal anasarca and skeletal malformations) or developmental toxicity (decreased fetal body weight and crown-rump length) were observed in rats at doses up to 1,000 mg per kg per day, resulting in exposures approximately 35 times the human exposure (AUC) at the recommended daily dose. No developmental effects were observed in rats at 100 mg per kg per day, resulting in exposures (AUC) 3.5 times the human exposure at the recommended daily dose. In a fertility and early embryo-fetal development study conducted in rats (at 60, 160, or 500 mg per kg per day), embryonic and fetal toxicities (increased resorptions, decreased fetal body weights) or toxicities to the offspring (increased incidence of stillbirth and lower body weights) occurred at doses up to 500 mg per kg per day. No developmental effects were observed in rats at 60 mg per kg per day, resulting in exposures (AUC) approximately 4 times the human exposure at the recommended daily dose. Studies in pregnant rats showed that abacavir is transferred to the fetus through the placenta. In pregnant rabbits, no developmental toxicities and no increases in fetal malformations occurred at up to the highest dose evaluated, resulting in exposures (AUC) approximately 9 times the human exposure at the recommended dose.

## 8.2 Lactation

### Risk Summary

The Centers for Disease Control and Prevention recommends that HIV-1-infected mothers in the United States not breastfeed their infants to avoid risking postnatal transmission of HIV-1 infection. Abacavir is present in human milk. There is no information on the effects of abacavir on the breastfed infant or the effects of the drug on milk production. Because of the potential for (1) HIV-1 transmission (in HIV-negative infants), (2) developing viral resistance (in HIV-positive infants), and (3) adverse reactions in a breastfed infant, instruct mothers not to breastfeed if they are receiving abacavir tablets.

## 8.4 Pediatric Use

The safety and effectiveness of abacavir sulfate have been established in pediatric patients aged 3 months and older. Use of abacavir sulfate is supported by pharmacokinetic trials and evidence from adequate and well-controlled trials of abacavir sulfate in adults and pediatric subjects [see *Dosage and Administration* (2.3), *Adverse Reactions* (6.2), *Clinical Pharmacology* (12.3), *Clinical Studies* (14.2)].

## 8.5 Geriatric Use

Clinical trials of abacavir sulfate did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. In general, caution should be exercised in the administration of abacavir sulfate in elderly patients reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy.

## 8.6 Patients with Impaired Hepatic Function

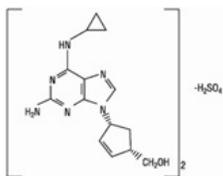
A dose reduction is required for patients with mild hepatic impairment (Child-Pugh Class A) [see *Dosage and Administration* (2.4)]. The safety, efficacy, and pharmacokinetic properties of abacavir have not been established in patients with moderate or severe hepatic impairment; therefore, abacavir sulfate is contraindicated in these patients [see *Contraindications* (4), *Clinical Pharmacology* (12.3)].

## 10 OVERDOSAGE

There is no known specific treatment for overdose with abacavir sulfate. If overdose occurs, the patient should be monitored and standard supportive treatment applied as required. It is not known whether abacavir can be removed by peritoneal dialysis or hemodialysis.

## 11 DESCRIPTION

Abacavir sulfate is a synthetic carbocyclic nucleoside analogue with inhibitory activity against HIV-1. The chemical name of abacavir sulfate is (1*S*,*cis*)-4-[2-amino-6-(cyclopropylamino)-9*H*-purin-9-yl]-2-cyclopentene-1-methanol sulfate (salt) (2:1). Abacavir sulfate is the enantiomer with 1*S*, 4*R* absolute configuration on the cyclopentene ring. It has a molecular formula of (C<sub>14</sub>H<sub>18</sub>N<sub>6</sub>O)<sub>2</sub>•H<sub>2</sub>SO<sub>4</sub> and a molecular weight of 670.76 g per mol. It has the following structural formula:



Abacavir sulfate is a white to off-white solid and is soluble in water.

Abacavir tablets USP 300 mg are for oral administration. Each tablet contains abacavir sulfate equivalent to 300 mg of abacavir as active ingredient and the following inactive ingredients: microcrystalline cellulose, sodium starch glycolate, corn starch, hypromellose, magnesium stearate, colloidal silicon dioxide and opadry yellow 15C52843 (consist of hypromellose, titanium dioxide, polyethylene glycol, iron oxide yellow, polysorbate 80).

*In vivo*, abacavir sulfate dissociates to its free base, abacavir. Dosages are expressed in terms of abacavir.

## 12 CLINICAL PHARMACOLOGY

### 12.1 Mechanism of Action

Abacavir is an antiretroviral agent [see *Microbiology* (12.4)].

### 12.3 Pharmacokinetics

#### Pharmacokinetics in Adults

The pharmacokinetic properties of abacavir were independent of dose over the range of 300 to 1,200 mg per day.

**Absorption:** Following oral administration, abacavir is rapidly absorbed and extensively distributed. The geometric mean absolute bioavailability of the tablet was 83%. Plasma abacavir AUC was similar following administration of the oral solution or tablets. After oral administration of 300 mg twice daily in 20 subjects, the steady-state peak serum abacavir concentration (C<sub>max</sub>) was 3.0 ± 0.89 mcg per mL (mean ± SD) and AUC<sub>(0-12 h)</sub> was 6.02 ± 1.73 mcg•hour per mL. After oral administration of a single dose of 600 mg of abacavir in 20 subjects, C<sub>max</sub> was 4.26 ± 1.19 mcg per mL (mean ± SD) and AUC<sub>∞</sub>

was  $11.95 \pm 2.51$  mcg•hour per mL.

**Effect of Food:** Bioavailability of abacavir tablets was assessed in the fasting and fed states with no significant difference in systemic exposure ( $AUC_{\infty}$ ); therefore, abacavir tablets may be administered with or without food. Systemic exposure to abacavir was comparable after administration of abacavir oral solution and abacavir tablets. Therefore, these products may be used interchangeably.

**Distribution:** The apparent volume of distribution after IV administration of abacavir was  $0.86 \pm 0.15$  L per kg, suggesting that abacavir distributes into extravascular space. In 3 subjects, the CSF  $AUC_{(0-6\text{ h})}$  to plasma abacavir  $AUC_{(0-6\text{ h})}$  ratio ranged from 27% to 33%.

Binding of abacavir to human plasma proteins is approximately 50% and was independent of concentration. Total blood and plasma drug-related radioactivity concentrations are identical, demonstrating that abacavir readily distributes into erythrocytes.

**Elimination:** In single-dose trials, the observed elimination half-life ( $t_{1/2}$ ) was  $1.54 \pm 0.63$  hours. After intravenous administration, total clearance was  $0.80 \pm 0.24$  L per hour per kg (mean  $\pm$  SD).

**Metabolism:** In humans, abacavir is not significantly metabolized by cytochrome P450 enzymes. The primary routes of elimination of abacavir are metabolism by alcohol dehydrogenase to form the 5 $\epsilon$ -carboxylic acid and glucuronyl transferase to form the 5 $\epsilon$ -glucuronide. The metabolites do not have antiviral activity. *In vitro* experiments reveal that abacavir does not inhibit human CYP3A4, CYP2D6, or CYP2C9 activity at clinically relevant concentrations.

**Excretion:** Elimination of abacavir was quantified in a mass balance trial following administration of a 600-mg dose of  $^{14}\text{C}$ -abacavir: 99% of the radioactivity was recovered, 1.2% was excreted in the urine as abacavir, 30% as the 5 $\epsilon$ -carboxylic acid metabolite, 36% as the 5 $\epsilon$ -glucuronide metabolite, and 15% as unidentified minor metabolites in the urine. Fecal elimination accounted for 16% of the dose.

#### Specific Populations

**Patients with Renal Impairment:** The pharmacokinetic properties of abacavir sulfate have not been determined in patients with impaired renal function. Renal excretion of unchanged abacavir is a minor route of elimination in humans.

**Patients with Hepatic Impairment:** The pharmacokinetics of abacavir have been studied in subjects with mild hepatic impairment (Child-Pugh Class A). Results showed that there was a mean increase of 89% in the abacavir AUC and an increase of 58% in the half-life of abacavir after a single dose of 600 mg of abacavir. The AUCs of the metabolites were not modified by mild liver disease; however, the rates of formation and elimination of the metabolites were decreased [see *Contraindications (4)*, *Use in Specific Populations (8.6)*].

**Pregnant Women:** Abacavir pharmacokinetics were studied in 25 pregnant women during the last trimester of pregnancy receiving abacavir 300 mg twice daily. Abacavir exposure (AUC) during pregnancy was similar to those in postpartum and in HIV-infected non-pregnant historical controls. Consistent with passive diffusion of abacavir across the placenta, abacavir concentrations in neonatal plasma cord samples at birth were essentially equal to those in maternal plasma at delivery.

**Pediatric Patients:** The pharmacokinetics of abacavir have been studied after either single or repeat doses of abacavir sulfate in 169 pediatric subjects. Subjects receiving abacavir oral solution according to the recommended dosage regimen achieved plasma concentrations of abacavir similar to adults. Subjects receiving abacavir oral tablets achieved higher plasma concentrations of abacavir than subjects receiving oral solution.

The pharmacokinetics of abacavir dosed once daily in HIV-1-infected pediatric subjects aged 3 months through 12 years was evaluated in 3 trials (PENTA 13 [n = 14], PENTA 15 [n = 18], and ARROW [n = 36]). All 3 trials were 2-period, crossover, open-label pharmacokinetic trials of twice- versus once-daily dosing of abacavir and lamivudine. For the oral solution as well as the tablet formulation, these 3 trials demonstrated that once-daily dosing provides comparable  $AUC_{0-24}$  to twice-daily dosing of abacavir at the same total daily dose. The mean  $C_{\text{max}}$  was approximately 1.6- to 2.3-fold higher with abacavir once-daily dosing compared with twice-daily dosing.

**Geriatric Patients:** The pharmacokinetics of abacavir sulfate have not been studied in subjects older than 65 years.

**Male and Female Patients:** A population pharmacokinetic analysis in HIV-1-infected male (n = 304) and female (n = 67) subjects showed no gender differences in abacavir AUC normalized for lean body weight.

**Racial Groups:** There are no significant or clinically relevant racial differences between blacks and whites in abacavir pharmacokinetics.

#### Drug Interaction Studies

**Effect of Abacavir on the Pharmacokinetics of Other Agents:** *In vitro* studies have shown that abacavir has potential to inhibit CYP1A1 and limited potential to inhibit metabolism mediated by CYP3A4. Abacavir did not inhibit or induce other CYP enzymes (such as CYP2C9, or CYP2D6).

Based on *in vitro* study results, abacavir at therapeutic drug exposures is not expected to affect the pharmacokinetics of drugs that are substrates of the following transporters: organic anion transporter polypeptide (OATP)1B1/3, breast cancer resistance protein (BCRP) or P-glycoprotein (P-gp), organic cation transporter (OCT)1, OCT2, or multidrug and toxic extrusion protein (MATE)1 and MATE2-K.

**Riociguat:** Coadministration of a single dose of riociguat (0.5 mg) to HIV-1-infected subjects receiving fixed-dose abacavir/dolutegravir/lamivudine is reported to increase riociguat  $AUC_{\infty}$  compared with riociguat  $AUC_{\infty}$  reported in healthy subjects due to CYP1A1 inhibition by abacavir. The exact magnitude of increase in riociguat exposure has not been fully characterized based on findings from two studies [see *Drug Interactions (7.2)*].

**Effect of Other Agents on the Pharmacokinetics of Abacavir:** *In vitro*, abacavir is not a substrate of OATP1B1, OATP1B3, OCT1, OCT2, OAT1, MATE1, MATE2-K, multidrug resistance-associated

protein (MRP)2 or MRP4; therefore, drugs that modulate these transporters are not expected to affect abacavir plasma concentrations. Abacavir is a substrate of BCRP and P-gp *in vitro*; however, considering its absolute bioavailability (83%), modulators of these transporters are unlikely to result in a clinically relevant impact on abacavir concentrations.

**Lamivudine and/or Zidovudine:** Fifteen HIV-1-infected subjects were enrolled in a crossover-designed drug interaction trial evaluating single doses of abacavir (600 mg), lamivudine (150 mg), and zidovudine (300 mg) alone or in combination. Analysis showed no clinically relevant changes in the pharmacokinetics of abacavir with the addition of lamivudine or zidovudine or the combination of lamivudine and zidovudine. Lamivudine exposure (AUC decreased 15%) and zidovudine exposure (AUC increased 10%) did not show clinically relevant changes with concurrent abacavir.

**Ethanol:** Abacavir has no effect on the pharmacokinetic properties of ethanol. Ethanol decreases the elimination of abacavir causing an increase in overall exposure. Due to the common metabolic pathways of abacavir and ethanol via alcohol dehydrogenase, the pharmacokinetic interaction between abacavir and ethanol was studied in 24 HIV-1-infected male subjects. Each subject received the following treatments on separate occasions: a single 600-mg dose of abacavir, 0.7 g per kg ethanol (equivalent to 5 alcoholic drinks), and abacavir 600 mg plus 0.7 g per kg ethanol. Coadministration of ethanol and abacavir resulted in a 41% increase in abacavir AUC<sub>∞</sub> and a 26% increase in abacavir t<sub>1/2</sub>. Abacavir had no effect on the pharmacokinetic properties of ethanol, so no clinically significant interaction is expected in men. This interaction has not been studied in females.

**Methadone:** In a trial of 11 HIV-1-infected subjects receiving methadone-maintenance therapy (40 mg and 90 mg daily), with 600 mg of abacavir sulfate twice daily (twice the currently recommended dose), oral methadone clearance increased 22% (90% CI: 6% to 42%). This alteration will not result in a methadone dose modification in the majority of patients; however, an increased methadone dose may be required in a small number of patients [see *Drug Interactions* (7)]. The addition of methadone had no clinically significant effect on the pharmacokinetic properties of abacavir

## 12.4 Microbiology

Abacavir is a carbocyclic synthetic nucleoside analogue. Abacavir is converted by cellular enzymes to the active metabolite, carbovir triphosphate (CBV-TP), an analogue of deoxyguanosine-5'-triphosphate (dGTP). CBV-TP inhibits the activity of HIV-1 reverse transcriptase (RT) both by competing with the natural substrate dGTP and by its incorporation into viral DNA.

### Antiviral Activity

The antiviral activity of abacavir against HIV-1 was assessed in a number of cell lines including primary monocytes/macrophages and peripheral blood mononuclear cells (PBMCs). EC<sub>50</sub> values ranged from 3.7 to 5.8 microM (1 microM = 0.28 mcg per mL) and 0.07 to 1.0 microM against HIV-1<sub>IIIIB</sub> and HIV-1<sub>BaL</sub>, respectively, and the mean EC<sub>50</sub> value was 0.26 ± 0.18 microM against 8 clinical isolates. The median EC<sub>50</sub> values of abacavir were 344 nM (range: 14.8 to 676 nM), 16.9 nM (range: 5.9 to 27.9 nM), 8.1 nM (range: 1.5 to 16.7 nM), 356 nM (range: 35.7 to 396 nM), 105 nM (range: 28.1 to 168 nM), 47.6 nM (range: 5.2 to 200 nM), 51.4 nM (range: 7.1 to 177 nM), and 282 nM (range: 22.4 to 598 nM) against HIV-1 clades A-G and group O viruses (n = 3 except n = 2 for clade B), respectively. The EC<sub>50</sub> values against HIV-2 isolates (n = 4), ranged from 0.024 to 0.49 microM. The antiviral activity of abacavir in cell culture was not antagonized when combined with the nucleoside reverse transcriptase inhibitors (NRTIs) didanosine, emtricitabine, lamivudine, stavudine, tenofovir, zalcitabine or zidovudine, the non-nucleoside reverse transcriptase inhibitor (NNRTI) nevirapine, or the protease inhibitor (PI) amprenavir. Ribavirin (50 microM) used in the treatment of chronic HCV infection had no effect on the anti-HIV-1 activity of abacavir in cell culture.

### Resistance

HIV-1 isolates with reduced susceptibility to abacavir have been selected in cell culture. Genotypic analysis of isolates selected in cell culture and recovered from abacavir-treated subjects demonstrated that amino acid substitutions K65R, L74V, Y115F, and M184V/I emerged in HIV-1 RT. M184V or I substitutions resulted in an approximately 2-fold decrease in susceptibility to abacavir. Substitutions K65R, L74M, or Y115F with M184V or I conferred a 7- to 8-fold reduction in abacavir susceptibility, and combinations of three substitutions were required to confer more than an 8-fold reduction in susceptibility.

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

### Cross-Resistance

Cross-resistance has been observed among NRTIs. Isolates containing abacavir resistance-associated substitutions, namely, K65R, L74V, Y115F, and M184V, exhibited cross-resistance to didanosine, emtricitabine, lamivudine, and tenofovir in cell culture and in subjects. An increasing number of thymidine analogue mutation substitutions (TAMs: M41L, D67N, K70R, L210W, T215Y/F, K219E/R/H/Q/N) is associated with a progressive reduction in abacavir susceptibility.

## 13 NONCLINICAL TOXICOLOGY

### 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

#### Carcinogenicity

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

to 32 times the human exposure at the recommended dose of 600 mg.

**Mutagenicity**

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

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

**Impairment of Fertility**

Abacavir did not affect male or female fertility in rats at a dose associated with exposures (AUC) approximately 3.3 times (male) or 4.1 times (female) those in humans at the clinically recommended dose.

**13.2 Animal Toxicology and/or Pharmacology**

Myocardial degeneration was found in mice and rats following administration of abacavir for 2 years. The systemic exposures were equivalent to 7 to 24 times the expected systemic exposure in humans at a dose of 600 mg. The clinical relevance of this finding has not been determined.

**14 CLINICAL STUDIES**

**14.1 Adult Trials**

**Therapy-Naive Adults**

CNA30024 was a multicenter, double-blind, controlled trial in which 649 HIV-1-infected, therapy-naive adults were randomized and received either abacavir sulfate (300 mg twice daily), lamivudine (150 mg twice daily), and efavirenz (600 mg once daily); or zidovudine (300 mg twice daily), lamivudine (150 mg twice daily), and efavirenz (600 mg once daily). The duration of double-blind treatment was at least 48 weeks. Trial participants were male (81%), white (51%), black (21%), and Hispanic (26%). The median age was 35 years; the median pretreatment CD4+ cell count was 264 cells per mm<sup>3</sup>, and median plasma HIV-1 RNA was 4.79 log<sub>10</sub> copies per mL. The outcomes of randomized treatment are provided in Table 7.

**Table 7. Outcomes of Randomized Treatment through Week 48 (CNA30024)**

Outcome	Abacavir sulfate plus Lamivudine plus Efavirenz (n = 324)	Zidovudine plus Lamivudine plus Efavirenz (n = 325)
Responder*	69% (73%)	69% (71%)
Virologic failures†	6%	4%
Discontinued due to adverse reactions	14%	16%
Discontinued due to other reasons‡	10%	11%

\* Subjects achieved and maintained confirmed HIV-1 RNA less than or equal to 50 copies per mL (less than 400 copies per mL) through Week 48 (Roche AMPLICOR Ultrasensitive HIV-1 MONITOR standard test 1.0 PCR).

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

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

After 48 weeks of therapy, the median CD4+ cell count increases from baseline were 209 cells per mm<sup>3</sup> in the group receiving abacavir sulfate and 155 cells per mm<sup>3</sup> in the zidovudine group. Through Week 48, 8 subjects (2%) in the group receiving abacavir sulfate (5 CDC classification C events and 3 deaths) and 5 subjects (2%) on the zidovudine arm (3 CDC classification C events and 2 deaths) experienced clinical disease progression.

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

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

Outcome	Abacavir sulfate plus Lamivudine/Zidovudine (n = 262)	Indinavir plus Lamivudine/Zidovudine (n = 265)
Responder*	49%	50%
Virologic failures†	31%	28%
Discontinued due to adverse reactions	10%	12%

Discontinued due to other reasons <sup>‡</sup>	11%	10%
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\* Subjects achieved and maintained confirmed HIV-1 RNA less than 400 copies per mL.

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

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

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

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

Screening HIV-1 RNA (copies/mL)	Abacavir sulfate plus Lamivudine/Zidovudine (n = 262)		Indinavir plus Lamivudine/Zidovudine (n = 265)	
	<400 copies/mL	n	<400 copies/mL	n
≥10,000 - ≤100,000	50%	166	48%	165
>100,000	48%	96	52%	100

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

Through Week 48, an overall mean increase in CD4+ cell count of about 150 cells per mm<sup>3</sup> was observed in both treatment arms. Through Week 48, 9 subjects (3.4%) in the group receiving abacavir (6 CDC classification C events and 3 deaths) and 3 subjects (1.5%) in the group receiving indinavir (2 CDC classification C events and 1 death) experienced clinical disease progression.

CNA30021 was an international, multicenter, double-blind, controlled trial in which 770 HIV-1-infected, therapy-naïve adults were randomized and received either abacavir 600 mg once daily or abacavir 300 mg twice daily, both in combination with lamivudine 300 mg once daily and efavirenz 600 mg once daily. The double-blind treatment duration was at least 48 weeks. Trial participants had a mean age of 37 years; were; male (81%), white (54%), black (27%), and American Hispanic (15%). The median baseline CD4+ cell count was 262 cells per mm<sup>3</sup> (range: 21 to 918 cells per mm<sup>3</sup>) and the median baseline plasma HIV-1 RNA was 4.89 log<sub>10</sub> copies per mL (range: 2.60 to 6.99 log<sub>10</sub> copies per mL).

The outcomes of randomized treatment are provided in Table 10.

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

Outcome	Abacavir sulfate 600 mg q.d. plus EPIVIR plus Efavirenz (n = 384)	Abacavir sulfate 300 mg b.i.d. plus EPIVIR plus Efavirenz (n = 386)
Responder*	64% (71%)	65% (72%)
Virologic failure <sup>†</sup>	11% (5%)	11% (5%)
Discontinued due to adverse reactions	13%	11%
Discontinued due to other reasons <sup>‡</sup>	11%	13%

\* Subjects achieved and maintained confirmed HIV-1 RNA less than 50 copies per mL (less than 400 copies per mL) through Week 48 (Roche AMPLICOR Ultrasensitive HIV-1 MONITOR standard test version 1.0).

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

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

After 48 weeks of therapy, the median CD4+ cell count increases from baseline were 188 cells per mm<sup>3</sup> in the group receiving abacavir 600 mg once daily and 200 cells per mm<sup>3</sup> in the group receiving abacavir 300 mg twice daily. Through Week 48, 6 subjects (2%) in the group receiving abacavir sulfate 600 mg once daily (4 CDC classification C events and 2 deaths) and 10 subjects (3%) in the group receiving abacavir sulfate 300 mg twice daily (7 CDC classification C events and 3 deaths) experienced clinical disease progression. None of the deaths were attributed to trial medications.

## 14.2 Pediatric Trials

### Therapy-Experienced Pediatric Subjects

CNA3006 was a randomized, double-blind trial comparing abacavir sulfate 8 mg per kg twice daily plus lamivudine 4 mg per kg twice daily plus zidovudine 180 mg per m<sup>2</sup> twice daily versus lamivudine 4 mg per kg twice daily plus zidovudine 180 mg per m<sup>2</sup> twice daily. Two hundred and five therapy-experienced pediatric subjects were enrolled: female (56%), white (17%), black (50%), Hispanic (30%), median age of 5.4 years, baseline CD4+ cell percent greater than 15% (median = 27%), and median baseline plasma HIV-1 RNA of 4.6 log<sub>10</sub> copies per mL. Eighty percent and 55% of subjects had prior therapy with zidovudine and lamivudine, respectively, most often in combination. The median duration of prior nucleoside analogue therapy was 2 years. At 16 weeks, the proportion of subjects responding based on plasma HIV-1 RNA less than or equal to 400 copies per mL was significantly higher in subjects receiving abacavir sulfate plus lamivudine plus zidovudine compared with subjects receiving lamivudine plus zidovudine, 13% versus 2%, respectively. Median plasma HIV-1 RNA changes from baseline were -0.53 log<sub>10</sub> copies per mL in the group receiving abacavir sulfate plus lamivudine plus zidovudine compared with -0.21 log<sub>10</sub> copies per mL in the group receiving lamivudine plus zidovudine. Median CD4+ cell count increases from baseline were 69 cells per mm<sup>3</sup> in the group receiving abacavir sulfate plus lamivudine plus zidovudine and 9 cells per mm<sup>3</sup> in the group receiving

lamivudine plus zidovudine.

#### Once-Daily Dosing

ARROW (COL105677) was a 5-year randomized, multicenter trial which evaluated multiple aspects of clinical management of HIV-1 infection in pediatric subjects. HIV-1–infected, treatment-naïve subjects aged 3 months to 17 years were enrolled and treated with a first-line regimen containing abacavir and lamivudine, dosed twice daily according to World Health Organization recommendations. After a minimum of 36 weeks of treatment, subjects were given the option to participate in Randomization 3 of the ARROW trial, comparing the safety and efficacy of once-daily dosing with twice-daily dosing of abacavir and lamivudine, in combination with a third antiretroviral drug, for an additional 96 weeks. Of the 1,206 original ARROW subjects, 669 participated in Randomization 3. Virologic suppression was not a requirement for participation at baseline for Randomization 3 (following a minimum of 36 weeks of twice-daily treatment), 75% of subjects in the twice-daily cohort were virologically suppressed compared with 71% of subjects in the once-daily cohort.

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

**Table 11. Virologic Outcome of Randomized Treatment at Week 96<sup>a</sup> (ARROW Randomization 3)**

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

\* Predicted difference (95% CI) of response rate is -4.5% (-11% to 2%) at Week 96.

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

<sup>‡</sup> Other includes reasons such as withdrew consent, loss to follow-up, etc. and the last available HIV-1 RNA less than 80 copies per mL (or missing).

## 16 HOW SUPPLIED/STORAGE AND HANDLING

Abacavir tablets USP 300 mg, containing abacavir sulfate equivalent to 300 mg abacavir are yellow coloured, capsule shaped, biconvex, film coated tablets, having scoreline on both sides with "5" and "14" debossed on either side of scoreline on one side. They are packaged as follows:

Bottles of 60 tablets (NDC 69097-514-03).

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

## 17 PATIENT COUNSELING INFORMATION

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

### Hypersensitivity Reactions

Inform patients:

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

### Lactic Acidosis/Hepatomegaly with Steatosis

Advise patients that lactic acidosis and severe hepatomegaly with steatosis have been reported with use of nucleoside analogues and other antiretrovirals. Advise patients to stop taking abacavir tablets if they develop clinical symptoms suggestive of lactic acidosis or pronounced hepatotoxicity [see, *Warnings and Precautions (5.2)*].

#### Immune Reconstitution Syndrome

Advise patients to inform their healthcare provider immediately of any signs and symptoms of infection as inflammation from previous infection may occur soon after combination antiretroviral therapy, including when abacavir tablet is started [see *Warnings and Precautions (5.3)*].

#### Pregnancy Registry

Advise patients that there is a pregnancy exposure registry that monitors pregnancy outcomes in women exposed to abacavir sulfate during pregnancy [see *Use in Specific Populations (8.1)*].

#### Lactation

Instruct women with HIV-1 infection not to breastfeed because HIV-1 can be passed to the baby in the breast milk [see *Use in Specific Populations (8.2)*].

#### Missed Dose

Instruct patients that if they miss a dose of abacavir tablets, to take it as soon as they remember. Advise patients not to double their next dose or take more than the prescribed dose [see *Dosage and Administration (2)*].

#### Availability of Medication Guide

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

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**Revised: 12/2020**

**Manufactured by**

**Cipla Limited**

**MIDC, Patalganga**

**M.S. 410220, INDIA**

**Manufactured for: Cipla USA, Inc.**

**10 Independence Boulevard, Suite 300, Warren**

**New Jersey - 07059**

#### **MEDICATION GUIDE**

#### **Abacavir (a-BAK-a-vir) Tablets**

**What is the most important information I should know about abacavir tablets?**

**Abacavir tablets can cause serious side effects, including:**

**Serious allergic reactions (hypersensitivity reaction)** that can cause death have happened with abacavir tablet and other abacavir-containing products. Your risk of this allergic reaction is much higher if you have a gene variation called HLA-B\*5701. Your healthcare provider can determine with a blood test if you have this gene variation.

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

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

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

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

- If you have an allergic reaction, dispose of any unused abacavir tablets. Ask your pharmacist how to properly dispose of medicines.
- If you take abacavir tablets or any other abacavir-containing medicine again after you have had an allergic reaction, within hours you may get life-threatening symptoms that may include very low blood pressure or death.
- If you stop abacavir tablets for any other reason, even for a few days, and you are not allergic to abacavir tablets, talk with your healthcare provider before taking it again. Taking abacavir tablets again can cause a serious allergic or life-threatening reaction, even if you never had an allergic reaction to it before.

**If your healthcare provider tells you that you can take abacavir tablets again, start taking it when you are around medical help or people who can call a healthcare provider if you need one.**

**What is abacavir tablets?**

Abacavir tablet is a prescription HIV-1 (Human Immunodeficiency Virus type 1) medicine used with other antiretroviral medicines to treat HIV-1 infection. HIV-1 is the virus that causes Acquired Immune Deficiency Syndrome (AIDS).

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

**When used with other antiretroviral medicines to treat HIV-1 infection, abacavir tablets may help:**

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

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

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

**Who should not take abacavir tablets?**

**Do not take abacavir tablets if you:**

- have a certain type of gene variation called the HLA-B\*5701 allele. Your healthcare provider will test you for this before prescribing treatment with abacavir tablets.
- are allergic to abacavir or any of the ingredients in abacavir tablets. See the end of this Medication Guide for a complete list of ingredients in abacavir tablets.
- have liver problems.

**What should I tell my healthcare provider before taking abacavir tablets?**

**Before you take abacavir tablets, tell your healthcare provider if you:**

- have been tested and know whether or not you have a particular gene variation called HLA-B\*5701.
- have or have had liver problems, including hepatitis B or C virus infection.
- have heart problems, smoke, or have diseases that increase your risk of heart disease such as high blood pressure, high cholesterol, or diabetes.
- drink alcohol or take medicines that contain alcohol.
- are pregnant or plan to become pregnant. Talk to your healthcare provider if you are pregnant or plan to become pregnant.
- **Pregnancy Registry.** There is a pregnancy registry for women who take antiretroviral medicines during pregnancy. The purpose of this registry is to collect information about the health of you and your baby. Talk to your healthcare provider about how you can take part in this registry.
- are breastfeeding or plan to breastfeed. **Do not breastfeed if you take abacavir tablets.**
- You should not breastfeed if you have HIV-1 because of the risk of passing HIV-1 to your baby.

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

Some medicines interact with abacavir tablets. **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 abacavir tablets. **Do not start taking a new medicine without telling your healthcare provider.** Your healthcare provider can tell you if it is safe to take abacavir tablets with other medicines.

**Tell your healthcare provider if you take:**

- any other medicine to treat HIV-1
- methadone
- riociguat

**How should I take abacavir tablets?**

- **Take abacavir tablets exactly as your healthcare provider tells you.**
- Do not change your dose or stop taking abacavir tablets without talking with your healthcare provider. If you miss a dose of abacavir tablets, take it as soon as you remember. Do not take 2 doses at the same time. If you are not sure about your dosing, call your healthcare provider.
- Stay under the care of a healthcare provider while taking abacavir tablets.
- Abacavir tablets may be taken with or without food.
- For children aged 3 months and older, your healthcare provider will prescribe a dose of abacavir sulfate based on your child's body weight.
- Tell your healthcare provider if you or your child has trouble swallowing tablets.
- Do not run out of abacavir tablets. The virus in your blood may increase and the virus may become harder to treat. When your supply starts to run out, get more from your healthcare provider or pharmacy.
- If you take too much abacavir tablets, call your healthcare provider or go to the nearest hospital emergency room right away.

**What are the possible side effects of abacavir tablets?**

- **Abacavir tablets can cause serious side effects including:**
- **See "What is the most important information I should know about abacavir tablets?"**
- **Build-up of acid in your blood (lactic acidosis).** Lactic acidosis can happen in some people who take abacavir. Lactic acidosis is a serious medical emergency that can cause death. **Call your healthcare provider right away if you get any of the following symptoms that could be signs of lactic acidosis:**
  - feel very weak or tired
  - unusual (not normal) muscle pain
  - trouble breathing

- stomach pain with nausea and vomiting
- feel cold, especially in your arms and legs
- feel dizzy or light-headed
- have a fast or irregular heartbeat
- **Serious liver problems** can happen in people who take abacavir. In some cases, these serious liver problems can lead to death. Your liver may become large (hepatomegaly) and you may develop fat in your liver (steatosis) when you take abacavir. **Call your healthcare provider right away if you have any of the following signs of liver problems:**
  - your skin or the white part of your eyes turns yellow (jaundice)
  - dark or "tea-colored" urine
  - light-colored stools (bowel movements)
  - loss of appetite for several days or longer
  - nausea
  - pain, aching, or tenderness on the right side of your stomach area

**You may be more likely to get lactic acidosis or serious liver problems if you are female or very overweight (obese).**

- **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 right away if you start having new symptoms after you start taking abacavir tablets.
- **Heart attack (myocardial infarction).** Some HIV-1 medicines including abacavir sulfate may increase your risk of heart attack.

**The most common side effects of abacavir sulfate in adults include:**

- nausea
- headache
- generally not feeling well
- tiredness
- vomiting
- bad dreams or sleep problems

**The most common side effects of abacavir sulfate in children include:**

- fever and chills
- nausea
- vomiting
- rash
- ear, nose, or throat infections

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

These are not all the possible side effects of abacavir tablets. For more information, ask your healthcare provider or pharmacist. Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

**How should I store abacavir tablets?**

- Store abacavir tablets USP 300 mg at room temperature, between 68°F to 77°F (20°C-25°C).
- Do not freeze abacavir sulfate.

**Keep abacavir tablets and all medicines out of the reach of children.**

**General information for safe and effective use of abacavir tablets**

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

If you would like more information, talk with your healthcare provider. You can ask your healthcare provider or pharmacist for the information about abacavir tablets that is written for health professionals.

For more information go to [www.ciplausa.com](http://www.ciplausa.com) or call Cipla at 1-866-604-3268.

**What are the ingredients in abacavir tablets?**

Active ingredient: abacavir

Inactive ingredients:

**Tablets:**

microcrystalline cellulose, sodium starch glycolate, corn starch, hypromellose, magnesium stearate, colloidal silicon dioxide and opadry yellow 15C52843 (consist of hypromellose, titanium dioxide, polyethylene glycol, iron oxide yellow, polysorbate 80).

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This Medication Guide has been approved by the US Food and Drug Administration.

**Revised: 12/2020**

**Manufactured by**

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**MIDC, Patalganga**

**M.S. 410220, INDIA**

**Manufactured for: Cipla USA, Inc.**

10 Independence Boulevard, Suite 300, Warren  
New Jersey - 07059

PACKAGE LABEL.PRINCIPAL DISPLAY PANEL

NDC 69097-514-03 Rx Only

**Abacavir  
Tablets, USP**

**300 mg**

**60 Tablets**

**Cipla**

**Notice to Authorized Dispenser:**  
Each time Abacavir Tablets is dispensed,  
give the patient a Medication guide and  
Warning Card from the carton.

Each tablet contains  
Abacavir Sulfate USP equivalent to Abacavir 300 mg

**Usual dosage:** See package insert for dosage  
and administration.

Do not use if safety seal under cap is broken  
or missing.

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

**KEEP OUT OF REACH OF CHILDREN**

Manufactured by: **Cipla Ltd.**  
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Manufactured for: **Cipla USA, Inc.**  
1560 Sawgrass Corporate Parkway,  
Suite 130, Sunrise, FL 33323

M.L. KD-620 Rev. 4/2017 211618  
NDC 69097 514 03 117

LOT  
N114  
N18  
4XB

Unvarnished Area for Batch overprinting  
(Product GTIN, Serial No., Expiry & Lot will be  
overprinted during commercial packing)

**300 mg**  
**Abacavir  
Tablets, USP**

NDC 69097-514-03 Rx Only 2105888

NDC 69097-514-03 Rx Only

**Abacavir  
Tablets, USP**

**300 mg**

Each tablet contains  
Abacavir Sulfate USP equivalent to  
Abacavir 300 mg

**Usual dosage:** See package insert for  
dosage and administration.

**Notice to Authorized Dispenser:**  
Each time Abacavir Tablets is  
dispensed, give the patient a  
Medication guide and  
Warning Card from the carton.

**60 Tablets**

Do not use if safety seal under cap is  
broken or missing.

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

**KEEP OUT OF REACH OF CHILDREN**

**Cipla**

Window cut

NDC 69097-514-03 Rx Only

**Abacavir  
Tablets, USP**

**300 mg**

**60 Tablets**

**Cipla**

NDC 69097-514-03 Rx Only

**Abacavir  
Tablets, USP**

**300 mg**

M.L. KD-620

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1560 Sawgrass Corporate Parkway,  
Suite 130, Sunrise, FL 33323

Rev. 4/2017

**ABACAVIR**

abacavir tablet, film coated

**Product Information**

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:69097-514
<b>Route of Administration</b>	ORAL		

**Active Ingredient/Active Moiety**

Ingredient Name	Basis of Strength	Strength
ABACAVIR SULFATE (UNII: J220 T4J9Q2) (ABACAVIR - UNII:WR2TIP26VS)	ABACAVIR	300 mg

Inactive Ingredients				
Ingredient Name				Strength
CELLULOSE, MICRO CRYSTALLINE (UNII: OPIR32D61U)				
SODIUM STARCH GLYCOLATE TYPE A CORN (UNII: AG9B65PV6B)				
STARCH, CORN (UNII: O8232NY3SJ)				
MAGNESIUM STEARATE (UNII: 70097M6I30)				
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)				
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)				
HYPROMELLOSE 2910 (3 MPAS) (UNII: 0VUT3PMY82)				
POLYETHYLENE GLYCOL 400 (UNII: B697894SGQ)				
FERRIC OXIDE YELLOW (UNII: EX438O2MRT)				
POLYSORBATE 80 (UNII: 6OZP39ZG8H)				
Product Characteristics				
Color	YELLOW	Score	2 pieces	
Shape	CAPSULE	Size	19mm	
Flavor		Imprint Code	5;14	
Contains				
Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:69097-514-03	60 in 1 BOTTLE; Type 0: Not a Combination Product	11/21/2017	
Marketing Information				
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date	
ANDA	ANDA078119	11/21/2017		

**Labeler** - Cipla USA Inc. (078719707)

**Registrant** - Cipla USA Inc. (078719707)

Establishment			
Name	Address	ID/FEI	Business Operations
Cipla Patalganga		916940208	ANALYSIS(69097-514) , LABEL(69097-514) , MANUFACTURE(69097-514) , PACK(69097-514)

Establishment			
Name	Address	ID/FEI	Business Operations
Cipla Kurkumbh		917066446	API MANUFACTURE(69097-514)

Establishment			
Name	Address	ID/FEI	Business Operations
Mylan-Laboratories Limited		650438158	API MANUFACTURE(69097-514)