Abacavir and Lamivudine Tablets USP
300 mg/300 mg
ONLY

## HIGHLIGHTS OF PRESCRIBING INFORMATION

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

**ABACAVIR and LAMIVUDINE tablets, for oral use**

**Initial U.S. Approval: 2004** **POR Schedule: 32.56Q2.PP**

**WARNING: HYPERSENSITIVITY REACTIONS, LACTIC ACIDOSIS AND SEVERE HEPATOMEGALY WITH STEATOSIS, and EXACERBATIONS OF HEPATITIS B**
**See full prescribing information for complete boxed warning.**

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

**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. (5.2)**
- **Severe acute exacerbations of hepatitis B have been reported in patients who are co-infected with hepatitis B virus (HBV) and human immunodeficiency virus (HIV-1) and have discontinued lamivudine, a component of abacavir and lamivudine tablets. Hepatic function should be closely monitored with both clinical and laboratory follow-up for at least several months in patients who discontinue lamivudine and are co-infected with HIV-1 and HBV. If appropriate, initiation of anti-hepatitis B therapy may be warranted. (see Warnings and Precautions (5.2))**

**RECENT MAJOR CHANGES**

| | |
|---|---|
| Warnings and Precautions, Related Products that are Not Recommended (5.6) | Removed 03/2017 |

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## FULL PRESCRIBING INFORMATION

**WARNING: HYPERSENSITIVITY REACTIONS, LACTIC ACIDOSIS AND SEVERE HEPATOMEGALY WITH STEATOSIS, and EXACERBATIONS OF HEPATITIS B**

**Hypersensitivity Reactions**

**Serious and sometimes fatal hypersensitivity reactions, with multiple organ involvement, have occurred with abacavir-containing products. Hypersensitivity to abacavir is a multi-organ clinical syndrome. Patients who carry the HLA-B*5701 allele are at a higher risk of a hypersensitivity reaction to abacavir. However, hypersensitivity reactions have occurred in patients who do not have this allele. Therefore, a negative HLA-B*5701 test does not exclude the risk.**

**Abacavir and lamivudine tablets are 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 and lamivudine tablets if not previously known. Patients who have an unknown HLA-B*5701 status and who discontinue abacavir and lamivudine tablets for any other reason, even if they have taken abacavir and lamivudine tablets for only a few days, should not restart abacavir and lamivudine tablets or any other abacavir-containing product unless a sibling or parent is known to be HLA-B*5701 positive [see Warnings and Precautions (5.1), Clinical Pharmacology (12.1)].**

**Permanently discontinue abacavir and lamivudine tablets as a hypersensitivity reaction is suspected. Regardless of HLA-B*5701 status, permanently discontinue abacavir and lamivudine tablets if hypersensitivity cannot be ruled out, even when other diagnoses are possible [see Warnings and Precautions (5.1)].**

**Because of the risk of fatal hypersensitivity reactions with abacavir and lamivudine tablets, NEVER restart abacavir and lamivudine tablets or any other abacavir-containing product in patients who have stopped abacavir and lamivudine tablets and who are known to be HLA-B*5701 positive or whose HLA-B*5701 status is unknown [see Warnings and Precautions (5.1)].**

**Lactic Acidosis and Severe Hepatomegaly with Steatosis**

**Lactic acidosis and severe hepatomegaly with steatosis, including fatal cases, have been reported with the use of nucleoside analogues and other antiretrovirals. Abacavir and lamivudine tablets, NEVER restart abacavir and lamivudine tablets or any other abacavir-containing product [see Warnings and Precautions (5.2)].**

**Exacerbations of Hepatitis B**

**Severe acute exacerbations of hepatitis B have been reported in patients who are co-infected with hepatitis B virus (HBV) and have discontinued lamivudine, which is a component of abacavir and lamivudine tablets. Hepatic function should be closely monitored with both clinical and laboratory follow-up for at least several months in patients who discontinue lamivudine tablets and are co-infected with HIV-1 and HBV. If appropriate, initiation of anti-hepatitis B therapy may be warranted [see Warnings and Precautions (5.3)].**

## 1 INDICATIONS AND USAGE

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

## 2 DOSAGE AND ADMINISTRATION

### 2.1 Screening for HLA-B*5701 Allele Prior to Starting Abacavir and Lamivudine Tablets

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

### 2.2 Recommended Dosage for Adult Patients

The recommended dosage of abacavir and lamivudine tablets for adults is one tablet taken orally once daily, in combination with other antiretroviral agents, with or without food.

### 2.3 Recommended Dosage for Pediatric Patients

The recommended oral dose of abacavir and lamivudine tablets for pediatric patients weighing at least 30 kg is one tablet taken orally once daily, in combination with other antiretroviral agents, with or without food. Because abacavir and lamivudine tablets contain a fixed dose that cannot be dose adjusted, pediatric patients should be assessed for the ability to swallow tablets.

### 2.4 Not Recommended Due to Lack of Dosage Adjustment

Abacavir and Lamivudine Tablets is a fixed-dose tablet and cannot be dose adjusted. Abacavir and Lamivudine tablets are not recommended for:
- patients with creatinine clearance less than 30 mL per minute *(see Use in Specific Populations (8.6))*
- patients with hepatic impairment *(see Use in Specific Populations (8.7))* or patients who require dose reduction of medicines or severe hepatic impairment *(see Contraindications (4), Use in Specific Populations (8.7))*
- Use of EPIVIR® (lamivudine) and solution or tablets and ZIAGEN® (abacavir) oral solution may be considered.

## 3 DOSAGE FORMS AND STRENGTHS

Abacavir and Lamivudine Tablets, USP contain 600 mg of abacavir as abacavir sulfate USP and 300 mg of lamivudine USP as a film-coated, capsule-shaped, biconvex tablet, debossed with "APO" on one side and "A4" on other side.

## 4 CONTRAINDICATIONS

Abacavir and lamivudine tablets are 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)]* or lamivudine.
- with moderate or severe hepatic impairment *(see Use in Specific Populations (8.7))*.

## 5 WARNINGS AND PRECAUTIONS

### 5.1 Hypersensitivity Reactions

Serious and sometimes fatal hypersensitivity reactions have occurred with abacavir, a component of abacavir and lamivudine tablets. These hypersensitivity reactions have included multi-organ failure and anaphylaxis and typically occurred within the first six weeks of therapy with abacavir-containing products. Although rare, fatal 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 also developed hypersensitivity reactions to abacavir. In clinical trials with abacavir-containing products, the risk of a clinical or clinical and laboratory-normalizing prolonged rechallenge reaction in HLA-B*5701 positive patients was 8% of clinical trials with abacavir-containing products where the HLA-B*5701 screening was not performed. The incidence of suspected abacavir hypersensitivity reactions in clinical trials was 7% when subjects carrying the HLA-B*5701 allele were excluded from treatment with abacavir, the clinical diagnosis of abacavir hypersensitivity could be confirmed in 3% of clinical trials.

Due to the potential for severe, serious, and possibly fatal hypersensitivity reactions with abacavir:
- Abacavir and lamivudine tablets are contraindicated in patients with a prior hypersensitivity reaction to abacavir and in HLA-B*5701 positive patients.
- Before starting abacavir and lamivudine tablet, review medical history for prior exposure to any abacavir-containing product. Do not start abacavir and lamivudine tablets in patients who have a previously documented 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 and lamivudine tablets immediately if a hypersensitivity reaction is suspected, even when other diagnoses are possible (such as respiratory, gastrointestinal, or flu-like illnesses, or reactions involving the skin), or if the patient has stopped taking abacavir and lamivudine tablets for any other reason, even if they have taken abacavir and lamivudine tablets for only a few days.
  - A Medication Guide and Warning Card that provide information about recognition of hypersensitivity reactions should be dispensed with each new prescription and refill.

### 5.2 Lactic Acidosis and Severe Hepatomegaly with Steatosis

Lactic acidosis and severe hepatomegaly with steatosis, including fatal cases, have been reported with the use of nucleoside analogues and other antiretrovirals. See full prescribing information for ZIAGEN (abacavir) and EPIVIR (lamivudine). Treatment with abacavir and lamivudine 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 elevations).

### 5.3 Patients with Hepatitis B Virus Co-infection

**Severe Acute Exacerbations of Hepatitis B**

Severe acute exacerbations of hepatitis B virus (HBV) infection have been reported after discontinuation of lamivudine. See full prescribing information for EPIVIR (lamivudine). Patients should be closely monitored with both clinical and laboratory follow-up for at least several months after stopping treatment.

**Initiation of Antihepatitis B Therapy**

Not all of the HBV-infected patients who have been established for treatment of chronic hepatitis B in subjects dually infected with HIV-1 and HBV, 3 emergence of hepatitis B virus variants associated with resistance to lamivudine has been observed. Initiation of anti-hepatitis B therapy may be appropriate in most patients, but in the presence of concurrent infection with hepatitis B virus. See full prescribing information for EPIVIR (lamivudine).

### 5.4 Use with Interferon and Ribavirin-based Regimens

Patients receiving interferon alfa with or without ribavirin and abacavir and lamivudine tablets should be closely monitored for hematologic toxicity and for exacerbation of liver disease. Consider dose reduction or discontinuation of interferon alfa if hematologic toxicity occurs. Consider dose reduction or discontinuation of ribavirin, or both should also be considered if worsening clinical toxicities are observed, including hepatic decompensation (e.g., Child-Pugh greater than 6) (see full prescribing information for interferon and ribavirin).

### 5.5 Immune Reconstitution Syndrome

Immune reconstitution syndrome has been reported in patients treated with combination antiretroviral therapy, including abacavir and lamivudine tablets. 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 mycobacterial infections, cytomegalovirus, pneumocystis jiroveci pneumonia (PCP), or toxoplasmosis), which may necessitate further evaluation and treatment.

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

### 5.6 Fat Redistribution

Redistribution 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.

### 5.7 Myocardial Infarction

In a published prospective, observational, epidemiological trial designed to investigate the rate of myocardial infarction (DAD), an increased risk of MI was observed with exposure to abacavir. After controlling for these and other factors, exposure to abacavir was associated with an increased risk of MI. In a sponsor-conducted pooled analysis of clinical trials, no excess risk of MI was observed in abacavir-treated subjects as compared with control subjects. In totality, the available data from the observational cohort and clinical trials are inconclusive.

As a precaution, the underlying risk of coronary heart disease should be considered when prescribing abacavir and lamivudine tablets, 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 Boxed Warning, Warnings and Precautions (5.2))*
- Exacerbations of hepatitis B *(see Boxed Warning, Warnings and Precautions (5.3))*
- Hepatic decompensation in patients co-infected with HIV-1 and hepatitis C *(see Warnings and Precautions (5.4))*
- Immune reconstitution syndrome *(see Warnings and Precautions (5.5))*
- Redistribution of body fat *(see Warnings and Precautions (5.6))*
- Myocardial infarction *(see Warnings and Precautions (5.7))*

### 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 to rates in the clinical trials of another drug and may not reflect the rates observed in clinical practice.

**Serious and Fatal Reactions Associated Hypersensitivity Reactions**

In clinical trials, serious and sometimes fatal hypersensitivity reactions have occurred with abacavir, a component of abacavir and lamivudine tablets. These hypersensitivity reactions have included multi-organ failure and anaphylaxis and typically occurred within the first six weeks of therapy with abacavir-containing products. Although rare, fatal hypersensitivity reactions have occurred any time during treatment. The incidence of suspected abacavir hypersensitivity reactions is described in Table 1. Clinical and laboratory findings attributed to abacavir hypersensitivity included fever and/or rash as part of the syndrome.

Other signs and symptoms have included lethargy, headache, myalgia, edema, arthralgia, and paresthesia. Anaphylaxis, respiratory failure, hepatic failure, hypotension, and death have occurred when patients were not removed promptly or were rechallenged with these hypersensitivity reactions. Physical findings have also frequently included lymphadenopathy, mucosal membrane lesions (conjunctivitis and mouth ulcerations), and characteristic or urticarial skin rash (although some patients developed a generalized rash without other symptoms or signs of hypersensitivity). Other clinical and laboratory abnormalities included elevated liver chemistries, elevated creatine phosphokinase, elevated creatinine, and lymphopenia.

**Rechallenge**

Rechallenge with abacavir-containing products (even those not containing abacavir) has resulted in severe symptoms of hypersensitivity, including life-threatening hypotension and death. Symptoms upon rechallenge usually appear within hours, but in some cases, they have occurred within a few days. Rechallenge with abacavir-containing products has resulted in a severe worsening of these symptoms, including multiple organ involvement.

**Nausea and Vomiting Associated Hypersensitivity Reactions**

In clinical trials, nausea and sometimes fatal hypersensitivity reactions have occurred with abacavir, a component of abacavir and lamivudine tablets. These hypersensitivity reactions have included multi-organ failure and anaphylaxis and typically occurred within the first six weeks of therapy with abacavir-containing products. Although rare, fatal hypersensitivity reactions have occurred any time during treatment. Nausea and vomiting were characteristic of hypersensitivity to abacavir and frequently preceded the development of other symptoms of hypersensitivity. Other signs and symptoms have included lethargy, headache, myalgia, edema, arthralgia, and paresthesia. Anaphylaxis, respiratory failure, hepatic failure, hypotension, and death have occurred when patients were not removed promptly or were rechallenged with these hypersensitivity reactions. Physical findings have also frequently included lymphadenopathy, mucosal membrane lesions (conjunctivitis and mouth ulcerations), and characteristic or urticarial skin rash (although some patients developed a generalized rash without other symptoms or signs of hypersensitivity). Other clinical and laboratory abnormalities included elevated liver chemistries, elevated creatine phosphokinase, elevated creatinine, and lymphopenia.

**Rechallenge**

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**Adverse Reactions with Use of Abacavir and Lamivudine Tablets**

Nausea and/or vomiting, diarrhea, abdominal pain, elevated amylase, elevated liver enzymes, and elevated bilirubin have been reported with abacavir and lamivudine tablets. Pancreatitis has been reported with lamivudine.

Fatigue, malaise, headache, insomnia, and myalgia have been reported with abacavir and lamivudine tablets. Myopathy has been reported with lamivudine.

Peripheral neuropathy (predominantly peripheral paresthesia) has been reported with lamivudine.

Rash has been reported with abacavir and lamivudine tablets. Stevens-Johnson syndrome and erythema multiforme have been reported with lamivudine.

**Clinical Trials Experience**

Adverse reactions observed in clinical trials of 2 ZIAGEN pediatric trials, nucleosides, liver chemistries, and hematologic abnormalities of EPIVIR, lamivudine tablets, and abacavir and lamivudine tablets. Additional adverse reactions observed in clinical trials of EPIVIR were thrombocytopenia and elevated levels of bilirubin, amylase, and lipase. The frequencies of treatment-emergent laboratory abnormalities were comparable between treatment groups in 2 CNA30021.

*Other Adverse Events* In addition to adverse reactions listed above, other adverse events observed in the expanded access program for abacavir and lamivudine tablets were:

**6.2 Clinical Trials Experience in Pediatric Subjects**

The safety of once-daily compared with twice-daily dosing of abacavir and lamivudine, administered as either single tablets or as oral solution, was evaluated in 2 open-label, randomized, multicenter trials in HIV-1-infected children. In the ARROW 2 CNA30021 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. Grade 3 and 4 adverse events were also similar between subjects randomized to receive abacavir and lamivudine tablets and those randomized to receive abacavir and lamivudine oral solution. Grade 3 and 4 adverse events were considered not related by the investigator. No additional safety issues were identified in patients randomized to once-daily dosing compared with historical data in adults *(see Clinical Pharmacology (12.3))*.

**6.3 Postmarketing Experience**

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

*Allergic*

Urticaria; Bronchospasm; Myocardial infarction.

*Skin* Suspected Stevens-Johnson syndrome (SJS) and toxic epidermal necrolysis (TEN) have been reported in patients receiving abacavir-containing products. Because these reports include patients with multiple medical history and concomitant medications, it is difficult to determine the relationship between hypersensitivity to abacavir and SJS and TEN, and the sensitivity of nucleic drug reactivity in opioid patients, abacavir should be discontinued and not restarted in such cases. Rash has been reported with abacavir and lamivudine tablets and abacavir *(see Adverse Reactions (6.1))*.

*Digestive and Hepatobiliary*

Acute pancreatitis; Hepatic steatosis/accumulation of body fat *(see Warnings and Precautions (5.6))*.

*Musculoskeletal*

Endocrine and Metabolic: Hyperglycemia.

*General:* Weakness.

Hemic and Lymphatic: Aplastic anemia, anemia (including pure red cell aplasia and severe anemia progressing on therapy), lymphadenopathy, splenomegaly.

*Immune* Anaphylaxis *(see Warnings and Precautions (5.2))*; postmarketment exacerbations of hepatitis B *(see Warnings and Precautions (5.3))*.

*Hypersensitivity:* Sensitization reactions (including anaphylaxis), urticaria.

*Musculoskeletal:* Muscle weakness, CPK elevation, rhabdomyolysis.

*Nervous:* Paresthesia, peripheral neuropathy, seizures.

*Respiratory:* Bronchospasm, dyspnea.

*Skin:* Alopecia, erythema multiforme, Stevens-Johnson syndrome.

## 7 DRUG INTERACTIONS

### 7.1 Methadone

In a study in HIV-1-infected subjects receiving methadone-maintenance therapy with 600 mg of ZIAGEN twice daily (twice the currently recommended dose), oral methadone clearance increased *(see Clinical Pharmacology (12.3))*. This increase in clearance of 22% to 35% may necessitate methadone dose modification in the majority of patients; however, an increase in methadone dose may be required in a small number of subjects.

## 8 USE IN SPECIFIC POPULATIONS

### 8.1 Pregnancy *Teratogenic Effects*

Pregnancy Exposure Registry

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

### 8.2 Lactation

Abacavir and lamivudine tablets, a combination and other antiretroviral agents, are indicated for the treatment of human immunodeficiency virus-1 (HIV-1) infection.

### 8.4 Pediatric Use

Abacavir and lamivudine tablets are not recommended for pediatric patients weighing less than 30 kg because this dose provides suboptimal exposure to abacavir and lamivudine. Because abacavir and lamivudine tablets contain a fixed dose that cannot be dose adjusted, abacavir and lamivudine tablets are not recommended for pediatric patients with hepatic impairment *(2.4 and 8.7)*.

Tablets: 600 mg of abacavir and 300 mg of lamivudine. *(3)*

### 4 CONTRAINDICATIONS

- Presence of HLA-B*5701 allele. *(4)*
- Prior hypersensitivity reaction to abacavir or lamivudine. *(4)*
- Moderate or severe hepatic impairment. *(4, 8.7)*

### 5 WARNINGS AND PRECAUTIONS

- Hepatic decompensation, some fatal, has occurred in HIV-1/HCV co-infected patients receiving combination antiretroviral therapy and interferon alfa with or without ribavirin. Discontinue abacavir and lamivudine as medically appropriate. Dose reduction or discontinuation of interferon alfa, ribavirin, or both should be considered if worsening clinical toxicities are observed. *(5.4)*
- Immune reconstitution syndrome and redistribution/accumulation of body fat have been reported in patients treated with combination antiretroviral therapy. *(5.5, 5.6)*

### 6 ADVERSE REACTIONS

The most commonly reported adverse reactions of at least moderate intensity (incidence greater than 5%) in an adult HIV-1 clinical trial were drug hypersensitivity, insomnia, depression/depressed mood, headache/migraine, fatigue/malaise, nausea/vomiting/diarrhea, and diarrhea. *(6.1)*

### 7 DRUG INTERACTIONS

- Methadone: An increased methadone dose may be required in a small number of patients. *(7.1)*

### 8 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: 05/2017

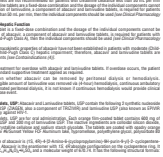
### 8.6 Patients with Impaired Renal Function

Abacavir and lamivudine tablets are not recommended for patients with creatinine clearance less than 30 mL per min because abacavir and lamivudine tablets are a fixed-dose combination and the dosage of the individual components cannot be adjusted. Abacavir and lamivudine tablets are not recommended for patients with renal impairment. Abacavir is primarily metabolized by the liver, and less than 2% is excreted unchanged in the urine. Lamivudine is primarily eliminated by the kidneys. Because the elimination of lamivudine is principally renal, the risk of adverse reactions may be greater in patients with impaired renal function. Use of EPIVIR® (lamivudine) and solution or tablets and ZIAGEN® (abacavir) oral solution may be considered.

### 8.7 Patients with Impaired Hepatic Function

Abacavir and Lamivudine tablets is a fixed-dose combination and the dosage of the individual components cannot be adjusted. Abacavir and lamivudine tablets are not recommended for patients with hepatic impairment. Abacavir is primarily metabolized by hepatic enzymes to inactive metabolites. Lamivudine undergoes limited hepatic metabolism. Elimination of abacavir or lamivudine may be prolonged in patients with hepatic impairment. *(12.3)*

**Abacavir:** The chemical name of abacavir is (1S, 4R)-4-[2-Amino-6-cyclopropylamino)-9H-purin-9-yl]-2-cyclopentene-1-methanol, sulfate (salt) (2:1). Abacavir sulfate USP is a white to off-white crystalline solid with a solubility of 77 mg per mL at 25°C in water at pH 7.7. It has a molecular formula of $(C_{14}H_{18}N_6O)_2 \cdot H_2SO_4$ and a molecular weight of 670.76. It has the following chemical formula:



Abacavir USP is a white to off-white powder which is soluble in water and slightly soluble in methanol. 1-octanol solubility decreases its to the base, abacavir. All dosages of abacavir sulfate are expressed in terms of abacavir (base).

**Lamivudine:** The chemical name of lamivudine is 2(1H) - Pyrimidinone, 4-amino-1- [2- (hydroxymethyl)-1, 3-oxathiolan-5-yl]-, (2R- cis)-. Lamivudine has also been referred to as (-)-2'-deoxy-3'-thiacytidine. It has a molecular formula of $C_8H_{11}N_3O_3S$ and a molecular weight of 229.26. It has the following chemical formula:

Lamivudine USP is a white or almost white powder which is soluble in water, sparingly soluble in methanol and slightly soluble in ethanol.

### 12 CLINICAL PHARMACOLOGY

#### 12.1 Mechanism of Action

Abacavir and lamivudine are each active in an antiretroviral agent *(see Microbiology (12.4))*.

#### 12.3 Pharmacokinetics

*Pharmacokinetics in Adults*

Abacavir and lamivudine tablets are shown bioavailability trial of 1 abacavir and lamivudine tablet versus 2 ZIAGEN tablets (2 × 300 mg) and 2 EPIVIR tablets (2 × 150 mg) administered simultaneously in healthy subjects (n = 30), there was no difference in the extent of absorption, as measured by the area under the plasma concentration-time curve (AUC) and maximum plasma concentration ($C_{max}$), of abacavir and lamivudine.

*Absorption* Following oral administration, abacavir is rapidly absorbed and extensively distributed. After oral administration of a single dose of 600 mg of abacavir to 20 subjects, $C_{max}$ was 4.26 ± 1.19 mcg per mL (mean ± SD) and AUC—was 9.96 ± 2.58 mcg•hr per mL. The pharmacokinetics of abacavir are dose proportional following oral administration of doses of 300 mg and 600 mg of abacavir. Administration of an influenza dose of abacavir is recommended as undiagnosed drug in the urine. Metabolism of lamivudine is a minor route of elimination. In humans, the only known metabolite is the transsulfoxide metabolite (approximately 5% of dose) *(see Figure 1)*.

In humans, abacavir and lamivudine are not significantly metabolized by cytochrome P450 enzymes. The pharmacokinetic properties of abacavir and lamivudine in fasting subjects are summarized in Table 2.

**Table 2. Pharmacokinetic Parameters* for Abacavir and Lamivudine in Adults**

| Parameter | Abacavir | Lamivudine |
|---|---|---|
| Oral bioavailability (%) | 86 ± 24 (n = 5) | 82 ± 16 (n = 12) |
| Apparent volume of distribution (L/kg) | 0.86 ± 0.15 (n = 6) | 1.3 ± 0.4 (n = 20) |
| Systemic clearance (L/hr/kg) | 0.80 ± 0.24 (n = 6) | 0.32 ± 0.08 (n = 20) |
| Renal clearance (L/hr) | CLcr - 4.8 (n = 6) | 0.27 ± 0.09 (n = 20) |
| Elimination half-life (h) | 1.29 ± 0.83 (n = 6) | 5 (n = 20) |

a Data presented as mean ± standard deviation except where noted.

b Approximate range.

*Effect of Food on Absorption of Abacavir and Lamivudine*

Administration of abacavir with food delayed the time to peak plasma concentration by approximately 1.5 hours, but did not affect the extent of absorption. Abacavir and lamivudine tablets can be administered with or without food.

*Specific Populations*

*Renal Impairment* Abacavir and Lamivudine: The effect of renal impairment on the combination of abacavir and lamivudine has not been evaluated *(see the U.S. prescribing information for the individual abacavir and lamivudine components)*.

*Abacavir:* Abacavir pharmacokinetics were studied in 20 program women during the third 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, the ratio of concentrations in fetal plasma and samples at birth was essentially equal to those in maternal plasma at delivery.

Lamivudine: Lamivudine pharmacokinetics were studied in 36 pregnant women during 2 clinical trials conducted in South Africa. Lamivudine was administered orally to women at doses of 150 mg twice daily with zidovudine, 10 women at 300 mg twice daily with zidovudine, and 16 women at 150 mg twice daily with zidovudine, and 10 women at 300 mg twice daily with zidovudine. Lamivudine exposure (AUC) at the recommended dose of 150 mg twice daily was similar to those in postpartum women. Lamivudine concentrations were generally similar in maternal, neonatal, and umbilical cord serum samples.

*Pediatric Patients* Abacavir and Lamivudine: The pharmacokinetic data for abacavir and lamivudine following administration of abacavir and lamivudine tablets in pediatric subjects weighing 30 kg and above are limited. The dosing recommendations in this population are based on the safety and efficacy established in a controlled trial conducted using either the combination of abacavir and lamivudine tablets or abacavir and lamivudine oral solution *(see Dosage and Administration (2.3), Adverse Reactions (6.1), Clinical Studies (14.2))*.

*Abacavir:* Abacavir pharmacokinetics have been studied in pediatric subjects ranging from 3 months to 16 years of age. Information on the individual products in pediatric patients *(see Dosage and Administration (2.3), Adverse Reactions (6.1), Clinical Studies (14.2))*.

*Geriatric Patients* Abacavir: The pharmacokinetics of abacavir and lamivudine have not been studied in subjects over 65 years of age.

*Gender* There are no significant or clinically relevant gender differences in the pharmacokinetics of the individual components of abacavir and lamivudine tablets. Therefore, no dose adjustment is necessary based on gender alone.

*Race* There are no significant or clinically relevant racial differences in pharmacokinetics of the individual components of abacavir or lamivudine based on the available information that was analyzed for each of the individual components.

*Drug Interactions*

Drug interaction studies described are based on trials conducted with abacavir or lamivudine as the single entities; no drug interaction trials have been conducted with abacavir and lamivudine.

*Cytochrome P450 Enzymes* In humans, abacavir and lamivudine are not significantly metabolized by cytochrome P450 enzymes nor do they inhibit or induce this enzyme system; therefore, it is unlikely that clinically significant drug interactions will occur with abacavir and lamivudine tablets and these enzymes.

*Abacavir: Lamivudine:* Effect 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. The results of this trial indicate that coadministration of abacavir and lamivudine has no significant effect on the pharmacokinetic properties of abacavir, lamivudine or zidovudine.

*Lamivudine: Zidovudine:* No clinically significant alterations in lamivudine or zidovudine pharmacokinetics were observed in 18 asymptomatic HIV-1-infected adult subjects given a single dose of lamivudine (300 mg) in combination with multiple doses of zidovudine (300 mg every 12 h).

*Ethanol:* Ethanol (targeted dose to achieve peak concentrations of approximately 20 mM) had no effect on the pharmacokinetic properties of abacavir. Ethanol decreases the elimination of abacavir causing an increase in overall exposure.

*Methadone* In a study of 11 HIV-1-infected subjects receiving methadone-maintenance therapy (48 mg and 96 mg daily), with 600 mg of ZIAGEN twice daily (twice the currently recommended dose), oral methadone clearance increased 22% to 35% *(see Drug Interactions (7.1))*. This increase in clearance may necessitate methadone dose modification in the majority of patients; however, an increase in methadone dose may be required in a small number of subjects.

*Abacavir:* In vitro studies indicate ribavirin reduces phosphorylation of lamivudine, stavudine, and zidovudine. However, the clinical significance of this finding is unknown. Ribavirin did not affect the pharmacokinetic properties of abacavir in a study of pharmacokinetics (e.g., loss of HIV-1/HCV-infected subjects). Ribavirin was observed when ribavirin and lamivudine (n = 56), stavudine (n = 15), or zidovudine (n = 8) were coadministered as part of a multi-drug regimen to HIV-1/HCV-infected subjects *(see Warnings and Precautions (5.4))*.

*Lamivudine:* Ribavirin did not affect the pharmacokinetic properties of lamivudine in a study of pharmacokinetics (e.g., loss of HIV-1/HCV-infected subjects). Ribavirin was observed when ribavirin and lamivudine (n = 56), stavudine (n = 15), or zidovudine (n = 8) were coadministered as part of a multi-drug regimen to HIV-1/HCV-infected subjects *(see Warnings and Precautions (5.4))*.

*Interferon alfa:* Interferon alfa did not affect the pharmacokinetic properties of lamivudine.

*Trimethoprim/sulfamethoxazole* (TMP/SMX): No significant changes in lamivudine or zidovudine pharmacokinetics were observed in healthy subjects given TMP/SMX (160 mg/800 mg) twice daily for 7 days. Lamivudine is primarily eliminated by renal excretion via active organic cationic transport. The possibility of interactions with other medicinal products administered concurrently should be considered, particularly when their main route of elimination is active renal secretion via the organic cationic transport system (e.g., TMP/SMX). These interactions are of potential importance in patients with renal impairment.

*Clinical Studies* Abacavir and Lamivudine: Abacavir and lamivudine tablets, 600 mg/300 mg, was studied in 1 clinical trial in 562 HIV-1-infected subjects. Subjects were randomized to receive abacavir and lamivudine tablets once daily or abacavir 300 mg twice daily plus lamivudine 300 mg once daily. Subjects were stratified by baseline HIV-1 RNA (≤ 100,000 copies per mL or > 100,000 copies per mL) and by use of nucleoside analogue antiretroviral therapy. Subjects had a mean age of 37 years, were 20% female, 17% black, and 6% Hispanic. Subjects had a mean baseline CD4+ cell count was 368 cells per mm³ (range: 33 to 1,018 cells per mm³) and the median baseline HIV-1 RNA was 4.8 log10 copies per mL (range: 2.6 to 6.8 log10 copies per mL).

The outcomes of this trial are

**DONNÉES ESSENTIELLES DE LA MONOGRAPHIE DU PRODUIT**

**Ces données essentielles ne contiennent pas toutes les informations nécessaires pour utiliser ABACAVIR et LAMIVUDINE COMPRIMÉS efficacement et en toute sécurité. Voir la monographie complète du produit ABACAVIR et LAMIVUDINE COMPRIMÉS.**

**ABACAVIR et LAMIVUDINE comprimés, voie orale**

**Première autorisation aux États-Unis : 2004** **POM Schedule: S2/NS2/PP**

**MISE EN GARDE : RÉACTIONS D'HYPERSENSIBILITÉ, ACIDOSE LACTIQUE, HÉPATOMÉGALIE SÉVÈRE ACCOMPAGNÉE DE STÉATOSE ET EXACERBATIONS DE L'HÉPATITE B**

***Voir la totalité de l'encadré de mise en garde dans la monographie complète du produit.***

**Réactions d'hypersensibilité**

- **Des réactions d'hypersensibilité graves, parfois fatales se sont produites avec des médicaments contenant de l'abacavir (5.1).**
- **L'hypersensibilité à l'abacavir est un syndrome clinique multiviscéral (5.1).**
- **Les patients porteurs de l'allèle HLA-B*5701 sont exposés à un risque plus élevé de réaction d'hypersensibilité à l'abacavir (5.1).**
- **Abacavir et lamivudine comprimés est contre-indiqué chez les patients ayant présenté une réaction d'hypersensibilité antérieure à l'abacavir et chez les patients porteurs de l'allèle HLA-B*5701 (4).**
- **Arrêter immédiatement Abacavir et lamivudine comprimés en cas de suspicion de réaction d'hypersensibilité. Arrêter définitivement Abacavir et lamivudine comprimés si une hypersensibilité ne peut être exclue, même lorsque d'autres diagnostics sont possibles et ce, quel que soit le statut HLA-B*5701 (5.1).**
- **Après une réaction d'hypersensibilité à Abacavir et lamivudine comprimés, ne JAMAIS reprendre le traitement par Abacavir et lamivudine comprimés ni par aucun autre médicament contenant de l'abacavir (5.1).**

**Acidose lactique et hépatomégalie sévère accompagnée de stéatose**

- **Des cas d'acidose lactique et d'hépatomégalie sévère accompagnée de stéatose, y compris des cas fatals, ont été rapportés avec l'utilisation d'analogues nucléosidiques (5.2).**

**Exacerbations de l'hépatite B**

- **Des exacerbations aiguës sévères de l'hépatite B ont été décrites chez des patients co-infectés par le virus de l'hépatite B (VHB) et le virus de l'immunodéficience humaine (VIH-1) ayant arrêté leur traitement par la lamivudine, un composant d'Abacavir et lamivudine comprimés. Surveiller étroitement la fonction hépatique chez ces patients et, le cas échéant, instaurer un traitement anti-hépatite B (5.3).**

**MODIFICATIONS MAJEURES RÉCENTES**

Mises en garde et précautions d'emploi, Produits apparentés non recommandés (5.8) Retiré 03/2017

**INDICATIONS ET UTILISATION**

Abacavir et lamivudine comprimés est une combinaison d'abacavir et de lamivudine, deux inhibiteurs nucléosidiques de la transcriptase inverse du VIH-1, indiquée en association à d'autres médicaments antirétroviraux dans le traitement de l'infection par le VIH-1 (1).

**POSOLOGIE ET ADMINISTRATION**

- Avant d'instaurer Abacavir et lamivudine comprimés, rechercher la présence de l'allèle HLA-B*5701 car Abacavir et lamivudine comprimés contient de l'abacavir (2.1).
- Adultes : un comprimé par voie orale une fois/jour (2.2).
- Patients de pédiatrie pesant au moins 25 kg : un comprimé par jour (2.3).
- Dans la mesure où Abacavir et lamivudine comprimés est une combinaison à dose fixe dont la dose ne peut être ajustée, il n'est pas recommandé chez les patients nécessitant un ajustement de leur posologie ou chez les patients insuffisants hépatiques (2.4, 4).

**FORMES PHARMACEUTIQUES ET DOSAGES**

Comprimés : 600 mg d'abacavir et 300 mg de lamivudine (3).

**CONTRE-INDICATIONS**

- Présence de l'allèle HLA-B*5701 (4).
- Réaction d'hypersensibilité antérieure à l'abacavir ou à la lamivudine (4).
- Insuffisance hépatique modérée ou sévère (4, 8.7).

**MISES EN GARDE ET PRÉCAUTIONS D'EMPLOI**

- Une décompensation hépatique, parfois fatale, s'est produite chez des patients co-infectés par le VIH-1 et le virus de l'hépatite C (VHC) recevant un traitement antirétroviral combiné et de l'interféron alpha avec ou sans ribavirine. Arrêter le traitement par Abacavir et lamivudine si cela est justifié sur le plan médical et envisager une diminution de la posologie, voire l'arrêt du traitement par l'interféron alpha et/ou la ribavirine (5.4).
- Un syndrome inflammatoire de restauration immunitaire et une lipodystrophie ont été décrits chez des patients recevant un traitement antirétroviral combiné (5.5, 5.6).

**EFFETS INDÉSIRABLES**

Les effets indésirables les plus fréquemment signalés, d'intensité au moins modérée (incidence supérieure à 5 %) lors d'une étude clinique menée chez des adultes infectés par le VIH-1 étaient : hypersensibilité au médicament, insomnies, dépression/humeur dépressive, céphalées/migraine, fatigue/malaise, sensation vertigineuse/vertige, nausées et diarrhée (6.1).

**INTERACTIONS MÉDICAMENTEUSES**

- Méthadone : une dose plus forte de méthadone peut s'avérer nécessaire chez un petit nombre de patients (7.1).

**UTILISATION DANS LES POPULATIONS PARTICULIÈRES**

- Allaitement : les femmes infectées par le VIH doivent être informées de ne pas allaiter en raison du risque de transmission du VIH (8.2).

**Voir la rubrique 17 concernant les INFORMATIONS DESTINÉES AU CONSEIL DES PATIENTS ainsi que la notice.**

Révisée en : 03/2017

**MONOGRAPHIE COMPLÈTE DU PRODUIT : CONTENU***


**MISE EN GARDE : RÉACTIONS D'HYPERSENSIBILITÉ, ACIDOSE LACTIQUE, HÉPATOMÉGALIE SÉVÈRE ACCOMPAGNÉE DE STÉATOSE ET EXACERBATIONS DE L'HÉPATITE B**

1 **INDICATIONS ET UTILISATION**

2 **POSOLOGIE ET ADMINISTRATION**
- 2.1 Recherche de l'allèle HLA-B*5701 avant l'instauration du traitement par Abacavir et lamivudine comprimés
- 2.2 Posologie recommandée chez les patients adultes
- 2.3 Posologie recommandée chez les patients de pédiatrie
- 2.4 Non Recommandé en raison de l'impossibilité d'ajustement de la posologie

3 **FORMES PHARMACEUTIQUES ET DOSAGES**

4 **CONTRE-INDICATIONS**

5 **MISES EN GARDE ET PRÉCAUTIONS D'EMPLOI**
- 5.1 Réactions d'hypersensibilité
- 5.2 Acidose lactique et hépatomégalie sévère accompagnée de stéatose
- 5.3 Patients présentant une co-infection par le virus de l'hépatite B
- 5.4 Utilisation avec des traitements contenant de l'interféron et de la ribavirine
- 5.5 Syndrome inflammatoire de restauration immunitaire
- 5.6 Lipodystrophie
- 5.7 Infarctus du myocarde

6 **EFFETS INDÉSIRABLES**
- 6.1 Expérience issue des études cliniques chez des patients adultes
- 6.2 Expérience issue des études cliniques en pédiatrie
- 6.3 Données de pharmacovigilance

7 **INTERACTIONS MÉDICAMENTEUSES**
- 7.1 Méthadone

8 **UTILISATION DANS LES POPULATIONS PARTICULIÈRES**
- 8.1 Grossesse
- 8.2 Allaitement
- 8.4 Population pédiatrique
- 8.5 Sujets âgés
- 8.6 Patients insuffisants rénaux
- 8.7 Patients insuffisants hépatiques.

10 **SURDOSAGE**

11 **DESCRIPTION**

12 **PHARMACOLOGIE CLINIQUE**
- 12.1 Mécanisme d'action
- 12.3 Pharmacocinétique
- 12.4 Microbiologie

13 **TOXICOLOGIE NON CLINIQUE**
- 13.1 Cancérogenèse, mutagenèse, baisse de la fertilité
- 13.2 Toxicologie et/ou pharmacologie animale(s)

14 **ÉTUDES CLINIQUES**
- 14.1 Adultes
- 14.2 Population pédiatrique

16 **PRÉSENTATION/CONSERVATION ET MANIPULATION**

17 **INFORMATIONS DESTINÉES AU CONSEIL DES PATIENTS**


* Les rubriques ou sous-rubriques non renseignées de la monographie complète ne sont pas mentionnées.

**MONOGRAPHIE COMPLÈTE DU PRODUIT**

**MISE EN GARDE : RÉACTIONS D'HYPERSENSIBILITÉ, ACIDOSE LACTIQUE, HÉPATOMÉGALIE SÉVÈRE ACCOMPAGNÉE DE STÉATOSE ET EXACERBATIONS DE L'HÉPATITE B**

**Réactions d'hypersensibilité**

**Des réactions d'hypersensibilité graves, parfois fatales, comportant une atteinte multiviscérale, se sont produites avec l'abacavir, un composant d'Abacavir et lamivudine comprimés. Les patients porteurs de l'allèle HLA-B*5701 sont exposés à un risque plus élevé de réaction d'hypersensibilité à l'abacavir, bien que ces réactions d'hypersensibilité se soient produites chez des patients non porteurs de l'allèle HLA-B*5701 [*voir Mises en garde et précautions d'emploi (5.1)*]**

[illegible]

**NOTICE**
**Abacavir et lamivudine**
**comprimés**

**Quelles sont les informations les plus importantes à connaître à propos d'Abacavir et lamivudine comprimés ?**
**Abacavir et lamivudine peut provoquer des effets indésirables graves, dont :**

- **Des réactions allergiques graves (réactions d'hypersensibilité)** pouvant être mortelles, qui se sont produites avec Abacavir et lamivudine comprimés et d'autres médicaments contenant de l'abacavir. Le risque de réaction allergique est beaucoup plus élevé chez les patients porteurs d'une mutation génique appelée HLA-B*5701. Votre professionnel de santé peut déterminer par une analyse de sang si vous êtes porteur (-euse) de cette mutation génique.
  **Si vous présentez des symptômes d'au moins 2 des groupes suivants pendant la prise d'Abacavir et lamivudine comprimés, appelez immédiatement votre professionnel de santé afin de savoir si vous devez arrêter de prendre Abacavir et lamivudine comprimés.**

| | Symptôme(s) |
|---|---|
| Groupe 1 | Fièvre |
| Groupe 2 | Éruption cutanée |
| Groupe 3 | Nausées, vomissements, diarrhée, douleurs abdominales (au ventre) |
| Groupe 4 | Sensation de mal-être général, fatigue extrême ou douleurs |
| Groupe 5 | Essoufflement, toux, mal de gorge |

Une liste de ces symptômes figure sur la carte de mise en garde qui vous a été remise par votre pharmacien. **Ayez toujours cette carte de mise en garde sur vous.**

**Si vous arrêtez de prendre Abacavir et lamivudine comprimés en raison d'une réaction allergique, ne reprenez jamais Abacavir et lamivudine comprimés ni aucun autre médicament contenant de l'abacavir TRIUMEQ®, TRIZIVIR® ou ZIAGEN®).**

- Si vous présentez une réaction allergique, débarrassez-vous de tout comprimé non utilisé d'Abacavir et lamivudine comprimés. Demandez à votre pharmacien comment se débarrasser correctement des médicaments.
- Si vous reprenez Abacavir et lamivudine comprimés ou tout autre médicament contenant de l'abacavir après avoir présenté une réaction allergique, vous pourriez **en quelques heures** présenter des **symptômes mettant la vie en danger**, notamment une **pression artérielle très basse,** voire un **décès**.
- Si vous arrêtez Abacavir et lamivudine comprimés pour toute autre raison, même pendant quelques jours et si vous n'êtes pas allergique à Abacavir et lamivudine comprimés, parlez-en avec votre professionnel de santé avant de reprendre le traitement. La reprise du traitement par Abacavir et lamivudine comprimés peut provoquer une réaction allergique grave ou mettant la vie en danger, même si vous n'avez jamais présenté de réaction allergique à ce médicament auparavant.

**Si votre professionnel de santé vous dit que vous pouvez reprendre votre traitement par Abacavir et lamivudine comprimés, commencez à le prendre lorsque vous êtes à proximité d'une aide médicale ou d'une personne pouvant appeler un professionnel de santé le cas échéant.**

- **Une accumulation d'un acide dans le sang (acidose lactique).** L'acidose lactique peut survenir chez certaines personnes prenant Abacavir et lamivudine comprimés. L'acidose lactique est une urgence médicale grave pouvant entraîner la mort. **Appelez immédiatement votre professionnel de santé si vous présentez l'un des symptômes suivants qui pourrait être le signe d'une acidose lactique :**

- vous vous sentez très faible ou fatigué(e),
- vous avez froid, notamment aux bras et aux jambes,
- vous souffrez de douleurs musculaires inhabituelles (non normales),
- vous avez des vertiges ou des étourdissements,

[illegible]