

**HIGHLIGHTS OF PRESCRIBING INFORMATION**

These highlights do not include all the information needed to use **EFAVIRENZ, EMTRICITABINE, AND TENOFIVIR DISOPROXIL FUMARATE TABLET** safely and effectively. See full prescribing information for **EFAVIRENZ, EMTRICITABINE, AND TENOFIVIR DISOPROXIL FUMARATE TABLET**.

**EFAVIRENZ, EMTRICITABINE, AND TENOFIVIR DISOPROXIL FUMARATE TABLETS, for oral use****Initial U.S. Approval: 2006****WARNING: POSTTREATMENT ACUTE EXACERBATION OF HEPATITIS B****See full prescribing information for complete black warning.**

Severe acute exacerbations of hepatitis B virus (HBV) have been reported in patients coinfected with HBV and HIV-1 who have discontinued products containing emtricitabine (FTC) and/or tenofovir disoproxil fumarate (TDF), and may occur with discontinuation of **Efavirenz, emtricitabine and tenofovir disoproxil fumarate tablet**. Closely monitor hepatic function with both clinical and laboratory follow-up for at least several months in patients who are coinfected with HIV-1 and HBV and discontinue **Efavirenz, emtricitabine and tenofovir disoproxil fumarate tablet**. If appropriate, initiation of anti-hepatitis B therapy may be warranted. (5.1)

**RECENT MAJOR CHANGES****Warnings and Precautions****Neurosystem**

Symptoms 10/2019  
Immune Reconstitution Syndrome (5.12) 10/2019

**INDICATIONS AND USAGE**

**Efavirenz, emtricitabine and tenofovir disoproxil fumarate tablet** is a three-drug combination of efavirenz (EFV), a non-nucleoside reverse transcriptase inhibitor, and emtricitabine (FTC) and tenofovir disoproxil fumarate (TDF), both HIV-1 nucleoside analog reverse transcriptase inhibitors, and is indicated as a complete regimen or in combination with other antiretroviral agents for the treatment of HIV-1 infection in adults and pediatric patients weighing at least 40 kg. (1)

**ADVERSE REACTIONS**

Most common adverse reactions (incidence greater than or equal to 10%) observed in an adequately controlled clinical trial of EFV, FTC, and TDF are described as follows:

• Rash

• Hepatic impairment: Not recommended in patients with moderate to severe hepatic impairment. (2.4)

• Dosage adjustment with rifampin coadministration: An additional 200 mg/day of efavirenz is recommended for patients weighing 50 kg or more. (2.5)

• Pregnancy: Avoid pregnancy while receiving **Efavirenz, Emtricitabine and Tenofovir Disoproxil Fumarate** and for 12 weeks after discontinuation. (5.8, 8.3)

• Lactation: Breastfeeding is not recommended. (8.2)

• Females and Males of Reproductive Potential: Pregnancy testing and contraception are recommended. (8.3)

• Pediatrics: The incidence of rash was higher than in adults. (5.2, 6.1)

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

**WARNINGS AND PRECAUTIONS**

• Rash: Discontinue if severe rash develops. (5.2, 6.1)

• Hepatotoxicity: Monitor liver function tests before and during treatment in patients with underlying hepatic disease, including hepatitis B or C coinfection, marked transaminase elevations, or who are taking medications associated with liver toxicity. Among reported cases of hepatitis B, a few occurred in patients with no pre-existing hepatic disease. (5.3, 6.2, 8.7)

• Risk of adverse reactions or loss of virologic response due to drug interactions: Consult full prescribing information prior to initiation and during treatment with **Efavirenz, Emtricitabine and Tenofovir Disoproxil Fumarate** and for 12 weeks after discontinuation. (5.8, 8.3)

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**1. INDICATIONS AND USAGE**

2.1 Testing Prior to Initiation and During Treatment with **Efavirenz, Emtricitabine and Tenofovir Disoproxil Fumarate Tablet**

2.2 Recommended Dosage for Adults and Pediatric Patients Weighing at Least 40 kg

2.3 Not Recommended in Patients with Moderate or Severe Renal Impairment

2.4 Not Recommended in Patients with Moderate to Severe Hepatic Impairment

2.5 Dosage Adjustment with Rifampin

**3. DOSAGE FORMS AND STRENGTHS**

3.1 **WARNINGS AND PRECAUTIONS**

5.1 Severe Acute Exacerbation of Hepatitis B in Patients Coinfected with HIV-1 and HBV

5.2 Rash

5.3 Hepatotoxicity

5.4 Risk of Adverse Reactions or Loss of Virologic Response Due to Drug Interactions

5.5 Psychiatric Symptoms

5.6 Neurosystem

5.7 New Onset or Worsening Renal Impairment

5.8 Embryo-Fetal Toxicity

5.9 Immune Reconstitution Syndrome

5.10 Contraception

5.11 Lactic Acidosis/Severe Hepatomegaly with Steatosis

5.12 Immune Reconstitution Syndrome

5.13 Fat Redistribution

**6. ADVERSE REACTIONS**

6.1 Clinical Trials Experience

6.2 Postmarketing Experience

**7. DRUG INTERACTIONS**

7.2 Drugs Affecting Renal Function

7.3 Established and Potentially Significant Drug Interactions

7.4 Efavirenz Assay Interference

**8. USE IN SPECIFIC POPULATIONS**

8.1 Pregnancy

8.2 Lactation

8.3 Females and Males of Reproductive Potential

8.4 Pediatric Use

8.5 Geriatric Use

8.6 Renal Impairment

8.7 Hepatic Impairment

**11. DESCRIPTION****11.1 DESCRIPTION**

12.1 Mechanism of Action

12.2 Pharmacodynamics

12.3 Pharmacokinetics

12.4 Microbiology

**13. NONCLINICAL TOXICOLOGY**

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

13.2 Animal Toxicology and/or Pharmacology

**14. CLINICAL STUDIES****10. HOW SUPPLIED/STORAGE AND HANDLING****17. PATIENT COUNSELING INFORMATION**

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**FULL PRESCRIBING INFORMATION****WARNING: POSTTREATMENT ACUTE EXACERBATION OF HEPATITIS B**

Severe acute exacerbations of hepatitis B virus (HBV) have been reported in patients who are coinfected with HIV-1 and HBV and have discontinued products containing emtricitabine (FTC) and/or tenofovir disoproxil fumarate (TDF), which are components of **Efavirenz, Emtricitabine and Tenofovir Disoproxil Fumarate Tablet**. If appropriate, initiation of anti-hepatitis B therapy may be warranted. (See **Warnings and Precautions (5.1)**.)

**1. INDICATIONS AND USAGE**

**Efavirenz, emtricitabine and tenofovir disoproxil fumarate tablet** is indicated as a complete regimen or in combination with other antiretroviral agents for the treatment of HIV-1 infection in adults and pediatric patients weighing at least 40 kg.

• Late-onset neurotoxicity, including ataxia and encephalopathy (impaired consciousness, confusion, psychomotor slowing, psychosis, delirium), may occur months to years after beginning EFV therapy. Some events of late-onset neurotoxicity have occurred in patients with CYP2B6 genetic polymorphisms which are associated with increased EFV plasma levels. There have also been reports of late-onset neurotoxicity in patients with normal CYP2B6 genotype and symptoms of serious neurologic adverse experiences should be evaluated promptly to assess the possibility that these events may be related to EFV use, and whether discontinuation of **Efavirenz, Emtricitabine and Tenofovir Disoproxil Fumarate Tablet** is warranted. (See **Warnings and Precautions (5.7)**.)

• Patients receiving **Efavirenz, Emtricitabine and Tenofovir Disoproxil Fumarate Tablet** should be alerted to the potential for additive central nervous system effects when **Efavirenz, Emtricitabine and Tenofovir Disoproxil Fumarate Tablet** is used concomitantly with alcohol or psychoactive drugs.

• Patients who experience central nervous system effects such as dizziness, impaired concentration, and/or drowsiness should avoid potentially hazardous tasks such as driving or operating machinery.

• **5.7 New Onset or Worsening Renal Impairment**

**Efavirenz and tenofovir** are principally eliminated by the kidney, however, EFV is not. Renal impairment, including cases of acute renal failure, has been reported in patients receiving **Efavirenz, Emtricitabine and Tenofovir Disoproxil Fumarate Tablet**. In patients with moderate to severe renal impairment (estimated creatinine clearance below 50 mL/min), the incidence of rash was higher than in patients with normal renal function. (See **Warnings and Precautions (5.8)**.)

• **2.3 Recommended Dosage for Adults and Pediatric Patients Weighing at Least 40 kg**

**Efavirenz, Emtricitabine and Tenofovir Disoproxil Fumarate Tablet** is a three-drug combination product containing 600 mg of efavirenz (EFV), 200 mg of emtricitabine (FTC), and 300 mg of tenofovir disoproxil fumarate (TDF). The recommended dosage of **Efavirenz, Emtricitabine and Tenofovir Disoproxil Fumarate Tablet** once daily taken orally with or without food is one tablet once daily taken orally on an empty stomach. (See **Warnings and Precautions (5.7)**.)

• **2.4 Not Recommended in Patients with Moderate to Severe Hepatic Impairment**

**Efavirenz, Emtricitabine and Tenofovir Disoproxil Fumarate Tablet** is not recommended in patients with moderate to severe hepatic impairment (Child-Pugh B or C). (See **Warnings and Precautions (5.3)** and **Use in Specific Populations (8.7)**.)

• **2.5 Dosage Adjustment with Rifampin**

If efavirenz, emtricitabine and tenofovir disoproxil fumarate tablet is co-administered with rifampin in patients weighing 50 kg or more, take one tablet of **Efavirenz, Emtricitabine and Tenofovir Disoproxil Fumarate Tablet** once daily followed by an additional 200 mg per day of efavirenz. (See **Drug Interactions (7.3)** and **Clinical Pharmacology (12.3)**.)

**3. DOSAGE FORMS AND STRENGTHS**

**Efavirenz, Emtricitabine and Tenofovir Disoproxil Fumarate Tablet** is available as tablets. Each tablet contains 600 mg of efavirenz, 200 mg of emtricitabine and 300 mg of tenofovir disoproxil fumarate (tenofovir DF, which is equivalent to 245 mg of tenofovir disoproxil). The tablets are pink colored, capsule-shaped, biconvex film-coated tablets with "TDF" on one side and pain on other side.

**4. CONTRAINDICATIONS**

• **Efavirenz, Emtricitabine and Tenofovir Disoproxil Fumarate Tablet** is contraindicated in patients with previously demonstrated clinically significant hypersensitivity (e.g., Stevens-Johnson syndrome, erythema multiforme) to either **Efavirenz, Emtricitabine and Tenofovir Disoproxil Fumarate Tablet** or any of its components. (See **Warnings and Precautions (5.2)**.)

• **Efavirenz, Emtricitabine and Tenofovir Disoproxil Fumarate Tablet** is contraindicated to be coadministered with **abacavir/zidovudine** or **zalcitabine/zidovudine**. (See **Drug Interactions (7.3)** and **Warnings and Precautions (12.3)**.)

**5. WARNINGS AND PRECAUTIONS**

• **5.1 Severe Acute Exacerbation of Hepatitis B in Patients Coinfected with HIV-1 and HBV**

All patients should be tested for the presence of chronic HBV before or when initiating antiretroviral therapy with **Efavirenz, Emtricitabine and Tenofovir Disoproxil Fumarate Tablet**. In patients with HBV, the incidence of severe acute exacerbation of hepatitis B was higher than in patients who were not coinfected with HBV and HIV-1 and have discontinued FTC or TDF, two of the components of **Efavirenz, Emtricitabine and Tenofovir Disoproxil Fumarate Tablet**. Patients who are coinfected with HIV-1 and HBV should be closely monitored clinically and laboratory follow-up for at least several months after stopping treatment with **Efavirenz, Emtricitabine and Tenofovir Disoproxil Fumarate Tablet**. If appropriate, initiation of anti-hepatitis B therapy may be warranted, especially in patients with advanced liver disease or cirrhosis, since posttreatment exacerbation of hepatitis may lead to hepatic decompensation and liver failure. (5.1)

• **5.2 Rash**

In controlled clinical trials, 26% (2961/800) of adult subjects treated with 600 mg EFV experienced new-onset of rash compared with 17% (11/655) of adult subjects in control groups. Rash associated with blistering, moist desquamation, or ulceration occurred in 0.9% (9/1008) of subjects treated with EFV. The incidence of rash in these and similar studies continuing therapy with EFV, rash resolves within 1 month (median duration, 16 days). The discontinuation rate for rash in adult clinical trials was 1.7% (17/1008). **Efavirenz, Emtricitabine and Tenofovir Disoproxil Fumarate Tablet** can be reinitiated in patients receiving therapy because of rash. **Efavirenz, Emtricitabine and Tenofovir Disoproxil Fumarate Tablet** should be discontinued in patients developing severe rash associated with blistering, desquamation, mucosal involvement, or fever. Appropriate antihistamines and/or corticosteroids may improve the tolerability and hasten the resolution of rash. For patients who have a life-threatening or severe rash, discontinuation of **Efavirenz, Emtricitabine and Tenofovir Disoproxil Fumarate Tablet** should be considered. (See **Contraindications (4)**.)

Experience with EFV in subjects who discontinued other antiretroviral agents of the NRTI class is limited. Nineteen subjects who discontinued zalcitabine because of rash have been treated with EFV. None of these subjects experienced moderate to severe rash while receiving therapy with EFV, and two of these subjects discontinued because of rash.

Rash was reported in 59 of 162 pediatric subjects (36%) treated with EFV. **Efavirenz Reactions (8.7)**. Two patients had moderate to severe rash. Rash associated with moist desquamation, ulceration, and fever has been reported in 4 patients who had Grade 4 rash (erythema multiforme). The median time to onset of rash in pediatric subjects was 28 days (range 3-1642 days). Prophylaxis with appropriate antihistamines before initiating therapy with **Efavirenz, Emtricitabine and Tenofovir Disoproxil Fumarate Tablet** in pediatric patients should be considered.

**5.3 Hepatotoxicity**

Postmarketing cases of hepatitis, including fulminant hepatitis progressing to liver failure requiring transplantation or resulting in death, have been reported in patients treated with EFV, a component of **Efavirenz, Emtricitabine and Tenofovir Disoproxil Fumarate Tablet**. Based on postmarketing reports, patients with underlying hepatic disease, including coinfection with hepatitis B or C, and patients without pre-existing hepatic disease or other identified factors (e.g., Stevens-Johnson syndrome) (See **Warnings and Precautions (5.1)**.)

**Efavirenz, Emtricitabine and Tenofovir Disoproxil Fumarate Tablet** is not recommended for patients with moderate or severe hepatic impairment. Careful monitoring is recommended for patients with mild hepatic impairment receiving **Efavirenz, Emtricitabine and Tenofovir Disoproxil Fumarate Tablet** (see **Adverse Reactions (6.2)** and **Use in Specific Populations (8.7)**.)

Monitoring of liver enzymes before and during treatment is recommended for all patients (See **Dosage and Administration (2.1)**). Consider discontinuing **Efavirenz, Emtricitabine and Tenofovir Disoproxil Fumarate Tablet** in patients with persistent elevations of serum transaminases to greater than five times the upper limit of the normal range.

Discontinue **Efavirenz, Emtricitabine and Tenofovir Disoproxil Fumarate Tablet** if elevation of serum transaminases is accompanied by clinical signs or symptoms of hepatitis or hepatic decompensation. (See **Adverse Reactions (6.2)** and **Use in Specific Populations (8.7)**.)

**5.4 Risk of Adverse Reactions or Loss of Virologic Response Due to Drug Interactions**

The concomitant use of **Efavirenz, Emtricitabine and Tenofovir Disoproxil Fumarate Tablet** and other drugs may result in potentially significant drug interactions (See **Contraindications (4)** and **Drug Interactions (7.3)**, some of which may lead to:

• Loss of therapeutic effect of concomitant drug or **Efavirenz, Emtricitabine and Tenofovir Disoproxil Fumarate Tablet** and possible development of resistance.

**6. ADVERSE REACTIONS**

6.1 Clinical Trials Experience

6.2 Postmarketing Experience

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Possible clinically significant adverse reaction from greater exposures of **Efavirenz, Emtricitabine and Tenofovir Disoproxil Fumarate Tablet** or concomitant drug

QTc prolongation has been observed with the use of EFV (See **Drug Interactions (7.1)**) and **Clinical Pharmacology (12.2)**. Consider alternatives to **Efavirenz, Emtricitabine, and Tenofovir Disoproxil Fumarate Tablet** when administered with a drug with a known risk of Torsade de Pointes or when administered to patients at higher risk of Torsade de Pointes.

See Table 3 for steps to prevent or manage these possible and known significant drug interactions, including dosing recommendations. Consider the potential for drug interactions prior to and during **Efavirenz, Emtricitabine and Tenofovir Disoproxil Fumarate Tablet** therapy and recommend medications during **Efavirenz, Emtricitabine and Tenofovir Disoproxil Fumarate Tablet** therapy (See **Dosage and Administration (2.5)**, **Warnings and Precautions (5.7)**, and **Drug Interactions (7.1)**.)

**5.5 Psychiatric Symptoms**

Serious psychiatric adverse experiences have been reported in patients treated with EFV, a component of **Efavirenz, Emtricitabine and Tenofovir Disoproxil Fumarate Tablet**. In controlled trials of 1,008 subjects treated with efavirenz containing EFV, 1.5% (15/1008) of subjects treated with EFV experienced serious psychiatric reactions (0.4%, 0.3%, and 0.3%), and manic reactions (0.2%, 0.3%). When psychiatric symptoms similar to those noted above were combined and evaluated as a group in a meta-analysis of data from Study AG26066 (0.06%), NCT0000110, a Phase 3 clinical trial of EFV-containing regimens versus zalcitabine and zidovudine in 1,200 subjects (median follow-up 180 weeks, 102 weeks, and 76 weeks for subjects treated with EFV + zidovudine + lamivudine, EFV + didanosine + lamivudine, and zidovudine + lamivudine, respectively), treatment with EFV was associated with an increase in the occurrence of these selected psychiatric symptoms. Other factors associated with an increase in the occurrence of these psychiatric symptoms were history of injection drug use, psychiatric history, and receipt of psychotropic medication at trial entry; similar associations were observed in both the EFV and control treatment groups. In Study 006, onset of new serious psychiatric symptoms occurred throughout the trial for both EFV-treated and control-treated subjects. One percent of EFV-treated subjects discontinued or interrupted treatment because of these selected psychiatric symptoms. Other factors associated with an increase in the occurrence of these selected psychiatric symptoms, other than psychiatric history, and receipt of psychotropic medication at trial entry, similar associations were observed in both the EFV and control treatment groups. In Study 006, onset of new serious psychiatric symptoms occurred throughout the trial for both EFV-treated and control-treated subjects. 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**What are the possible side effects of Efavirenz, Emtricitabine and Tenofovir disoproxil fumarate tablet?**

**Efavirenz, Emtricitabine and Tenofovir disoproxil fumarate tablet may cause serious side effects, including:**

- **See “What is the most important information I should know about Efavirenz, Emtricitabine and Tenofovir disoproxil fumarate tablet?”**
- **Rash.** Rash is a serious side effect but may also be common. Rashes will usually go away without any change in your treatment. Tell your healthcare provider right away if you develop a rash during treatment with Efavirenz, Emtricitabine and Tenofovir disoproxil fumarate tablet.
- **Severe liver problems.** In rare cases, severe liver problems can happen that can lead to death. **Tell your healthcare provider right away if you get these symptoms:** skin or the white part of your eyes turns yellow, dark “tea-colored” urine, light-colored stools, loss of appetite for several days or longer, nausea, or stomach-ache pain.
- **Mental problems.** Serious mental problems including severe depression, suicidal thoughts and actions, aggressive behavior, delusions, catatonia, and paranoid and manic reactions have happened in people who take Efavirenz, Emtricitabine and Tenofovir disoproxil fumarate tablet. These mental health problems may happen more often in people who have a history of mental problems or drug use, or who take medicines to treat mental problems. Tell your healthcare provider right away if you develop serious mental problems during treatment with Efavirenz, Emtricitabine and Tenofovir disoproxil fumarate tablet.
- **Nervous system problems.** Nervous system problems usually begin during the first or second day of treatment with Efavirenz, Emtricitabine and Tenofovir disoproxil fumarate tablet and usually go away after 2 to 4 weeks of treatment. Some symptoms may occur months to years after beginning Efavirenz, Emtricitabine and Tenofovir disoproxil fumarate tablet therapy. These symptoms may become more severe if you drink alcohol or take mood altering (street) drugs while taking Efavirenz, Emtricitabine and Tenofovir disoproxil fumarate tablet. Tell your healthcare provider right away if you develop nervous system problems during treatment with Efavirenz, Emtricitabine and Tenofovir disoproxil fumarate tablet. Symptoms of nervous system problems may include:
  - o problems sleeping
  - o excessive sleepiness or difficulty awakening
  - o seeing or hearing things that are not real (hallucinations)
  - o unusually happy mood
  - o agitation
  - o thought problems
  - o slow thoughts and physical movement

- o dizziness
- o problems concentrating
- o abnormal dreams
- o confusion
- o memory problems
- o lack of coordination or difficulty with balance

If you have dizziness, trouble concentrating or sleepiness, do not drive a car, use machinery, or do anything that needs you to be alert.

• **New or worse kidney problems, including kidney failure.** Your healthcare provider should do blood and urine tests to check your kidneys before you start and during treatment with Efavirenz, Emtricitabine and Tenofovir disoproxil fumarate tablet. Your healthcare provider may tell you to stop taking Efavirenz, Emtricitabine and Tenofovir disoproxil fumarate tablet if you develop new or worse kidney problems during treatment with Efavirenz, Emtricitabine and Tenofovir disoproxil fumarate tablet.

• **Bone problems** can happen in some people who take Efavirenz, Emtricitabine and Tenofovir disoproxil fumarate tablet. Bone problems include bone pain or softening or thinning of bones, which may lead to fractures. Your healthcare provider may need to do tests to check your bones.

• **Seizures.** Your healthcare provider may do blood tests during treatment with Efavirenz, Emtricitabine and Tenofovir disoproxil fumarate tablet if you take certain medicines used to prevent seizures.

- **Too much lactic acid in your blood (lactic acidosis).** Too much lactic acid is a serious but rare medical emergency that can lead to death. Tell your healthcare provider right away if you develop any of these symptoms:
  - o weakness or being more tired than usual
  - o fast or abnormal heartbeat
  - o being short of breath or fast breathing
  - o unusual muscle pain
  - o stomach pain with nausea and vomiting
  - o cold or blue hands and feet
  - o feel dizzy or lightheaded

• **Changes in your immune system (Immune Reconstitution Syndrome) can happen when an HIV-1 infected person starts 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 develop any new symptoms after starting treatment with Efavirenz, Emtricitabine and Tenofovir disoproxil fumarate tablet.

• **Changes in body fat.** Changes in body fat distribution or accumulation have happened in some people taking HIV-1 medicines, including an increased amount of fat in the upper back and neck (“buffalo hump”), in the breasts, and around the trunk. Loss of fat from the legs, arms, and face may also happen. The cause and long-term health effects of these body fat changes are not known.

The most common side effects of Efavirenz, Emtricitabine and Tenofovir disoproxil fumarate tablet include:

- diarrhea
- tiredness
- dizziness
- problems sleeping
- rash
- nausea
- headache
- depression
- abnormal dreams

These are not all the possible side effects of Efavirenz, Emtricitabine and Tenofovir disoproxil fumarate tablet. 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 Efavirenz, Emtricitabine and Tenofovir disoproxil fumarate tablet?**

- Store Efavirenz, Emtricitabine and Tenofovir disoproxil fumarate tablet at room temperature 77°F (25°C).
- Keep Efavirenz, Emtricitabine and Tenofovir disoproxil fumarate tablet in its original container and keep the container tightly closed.

**Keep Efavirenz, Emtricitabine and Tenofovir disoproxil fumarate tablet and all other medicines out of reach of children.**

**General information about the safe and effective use of Efavirenz, Emtricitabine and Tenofovir disoproxil fumarate tablet:**

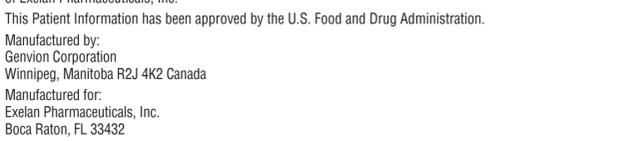
Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. Do not use Efavirenz, Emtricitabine and Tenofovir disoproxil fumarate tablet for a condition for which it was not prescribed. Do not give Efavirenz, Emtricitabine and Tenofovir disoproxil fumarate tablet to other people, even if they have the same symptoms that you have. It may harm them. You can ask your healthcare provider or pharmacist for information about Efavirenz, Emtricitabine and Tenofovir disoproxil fumarate tablet that is written for health professionals.

**What are the ingredients of Efavirenz, Emtricitabine and Tenofovir disoproxil fumarate tablet?**

**Active Ingredients:** efavirenz, emtricitabine, and tenofovir disoproxil fumarate

**Inactive Ingredients:** Croscarmellose sodium, hydroxypropyl cellulose, hydroxymellose, isopropyl alcohol, microcrystalline cellulose, magnesium stearate, red iron oxide, sodium lauryl sulfate. The tablets are film-coated with a coating material opdryl AMB 80W5445 pink containing polyvinyl alcohol-pur, hydrolyzed, titanium dioxide, talc, lecithin (soya), xanthan gum, iron oxide yellow, iron red and opdryl AMB 80W56845 red containing polyvinyl alcohol-pur, hydrolyzed, titanium dioxide, talc, lecithin (soya), xanthan gum, iron oxide red.

EFavirenz is chemically described as (S)-6-(4-oxo-1,4-dihydro-2(1H)-imidazo[5,1-b]thiazin-2-yl)-2-methyl-5-methylimidazole-3-carboxamide, and its structural formula is:



Emtricitabine is a white to off-white crystalline powder with a solubility of approximately 112 mg/mL in water at 25°C. Tenofovir DF, TDF is a fumaric acid salt of the bis-isopropoxycarbonyloxymethyl ether derivative of tenofovir. The chemical name of TDF is 9-(R)-2[[bis(isopropoxycarbonyloxy)methyl]phosphoryl]methoxy[proplyloxy]adenine fumarate (1:1). It has a molecular formula of C<sub>32</sub>H<sub>48</sub>N<sub>6</sub>O<sub>10</sub> · P<sub>2</sub>O<sub>7</sub> · 2H<sub>2</sub>O and a molecular weight of 635.52. It has the following structural formula:



TDF is a white to off-white crystalline powder with a solubility of 13.4 mg/mL in water at 25°C.

**12.1. CHEMICAL PHARMACOLOGY**

**12.1.1 Mechanism of Action:** Efavirenz, Emtricitabine and Tenofovir disoproxil fumarate tablet is a fixed-dose combination of antiviral drugs, FTC, and TDF. See Pharmacology (12.4).

**Animal Data:** Efavirenz Effects of EVF on embryo-fetal development have been studied in three nonclinical species ( cynomolgus monkeys, rat, and rabbits). In monkeys, EVF 600 mg/day was administered to pregnant females during pregnancy (gestation Days 29 through 63). In cynomolgus monkeys, 3 treatment groups were evaluated. The mean C<sub>max</sub> was 1.3 times the exposures at 14 days, with fetal ultrasound views or drug concentrations approximately 0.7 times the maternal values. These results of 20 fetuses/infants had no more malformations; there were no FDC, values above or infants from placenta transfer. The malformations that occurred in these three monkey litters included encephaly and unilateral anophthalmia in one fetus, microphthalmia in a second, and cleft palate in the third. There was no NOEL (no observable adverse effect) established for this study because only one dosage was evaluated. In rats, EVF was administered either during organogenesis (gestation Days 7 to 18) or from gestation Day 7 through lactation Day 21 at 50, 100, or 200 mg/kg/day. Administration of 200 mg/kg/day in rats was associated with an increase in the incidence of early resorptions, and doses 100 mg/kg/day and 50 mg/kg/day were associated with increased stillbirths. In rabbits (gestation Day 19 to 25), the mean C<sub>max</sub> was 1.3 times the exposures at 14 days, with fetal ultrasound views or drug concentrations approximately 0.7 times the maternal values. In pregnant rabbits, EVF was neither embryofetal nor teratogenic when administered at doses of 25, 50, and 75 mg/kg/day over the period of organogenesis (gestation Days 6 through 18). The AUC at the NOEL (75 mg/kg/day) in rabbits was 0.4 times that in humans at the NOEL.

Emtricitabine (FTC) was administered orally to pregnant mice at (at 250, 500, or 1,000 mg/kg/day), and rabbits (at 10, 100, 300, or 1,000 mg/kg/day) through organogenesis (on gestation days 6 through 15, and 7 through 19, respectively). No significant toxicological effects were observed in embryo-fetal toxicity studies performed after maternal exposure to FTC at doses up to 1,000 mg/kg/day in mice and up to 100 mg/kg/day in rabbits. In cynomolgus monkeys, 3 treatment groups were evaluated. The mean C<sub>max</sub> was 1.3 times the exposures at 14 days, with fetal ultrasound views or drug concentrations approximately 0.7 times the maternal values. In pregnant rabbits, EVF was neither embryofetal nor teratogenic when administered at doses of 25, 50, and 75 mg/kg/day over the period of organogenesis (gestation Days 6 through 18). The AUC at the NOEL (75 mg/kg/day) in rabbits was 0.4 times that in humans at the NOEL.

Tenofovir DF was administered orally to pregnant rats at (at 50, 150, or 450 mg/kg/day) and rabbits (at 0.30, 100, or 300 mg/kg/day) through organogenesis (on gestation days 7 through 17, and 8 through 18, respectively). No significant toxicological effects were observed in embryo-fetal toxicity studies performed after maternal exposure to TDF at doses up to 14 times the HRD based on body surface area comparisons and in rabbits at doses up to 100 mg/kg/day. In cynomolgus monkeys, 3 treatment groups were evaluated. The mean C<sub>max</sub> was 1.3 times the exposures at 14 days, with fetal ultrasound views or drug concentrations approximately 0.7 times the maternal values. In pregnant rabbits, EVF was neither embryofetal nor teratogenic when administered at doses of 25, 50, and 75 mg/kg/day over the period of organogenesis (gestation Days 6 through 18). The AUC at the NOEL (75 mg/kg/day) in rabbits was 0.4 times that in humans at the NOEL.

**8.2 Lactation:** The Centers for Disease Control and Prevention recommend that HIV-1 infected mothers not breastfeed their infants to avoid risking postnatal transmission of HIV-1.

Based on limited published data, EVF, FTC, and tenofovir have been shown to be present in human breast milk. In a study of 10 HIV-1 infected women, the mean C<sub>max</sub> of EVF in breast milk was 1.3 times the exposures at 14 days, with fetal ultrasound views or drug concentrations approximately 0.7 times the maternal values. In pregnant rabbits, EVF was neither embryofetal nor teratogenic when administered at doses of 25, 50, and 75 mg/kg/day over the period of organogenesis (gestation Days 6 through 18). The AUC at the NOEL (75 mg/kg/day) in rabbits was 0.4 times that in humans at the NOEL.

**8.3 Females and Males of Reproductive Potential:** Pregnancy Testing: Efavirenz, Emtricitabine and Tenofovir disoproxil fumarate tablet should be tested for pregnancy before initiation of Efavirenz, Emtricitabine and Tenofovir disoproxil fumarate tablet because of potential risk of neural tube defects (see Use in Specific Populations (8.1)).

**Contraception:** Advice about and adolescents of childbearing potential to use effective contraception during treatment with Efavirenz, Emtricitabine and Tenofovir disoproxil fumarate tablet and for 12 weeks after discontinuation of Efavirenz, Emtricitabine and Tenofovir disoproxil fumarate tablet due to the long half-life of EVF, a component of Efavirenz, Emtricitabine and Tenofovir disoproxil fumarate tablet. Hormonal methods that contain progesterone may have decreased effectiveness. Always use barrier contraception in combination with other methods of contraception (see Drug Interactions (7.1, 7.3)).

**12.2 Pharmacokinetics:** Efavirenz, Emtricitabine and Tenofovir disoproxil fumarate tablet is a fixed-dose combination of antiviral drugs, FTC, and TDF. See Pharmacology (12.4).

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