



For the use of a Registered Medical Practitioner or a Hospital or a Laboratory only

Efavirenz , Emtricitabine and Tenofovir Disoproxil Fumarate
Tablets IP 600 mg/200 mg/300 mg

Label Claim
Each film coated tablet contains:
Efavirenz IP 600 mg
Emtricitabine IP 200 mg
Tenofovir Disoproxil Fumarate IP 300 mg
Colours: Titanium Dioxide, Iron Oxide Red and Iron Oxide Black

List of Excipients:
Microcrystalline Cellulose, Croscarmellose sodium, Hydroxypropyl Cellulose (Klucel® LF), Sodium lauryl sulfate, Magnesium stearate, Lactose monohydrate, film coat (Iron Oxide Red, Titanium Dioxide, Talc, Polyethylene glycol & Polyvinyl alcohol)

Therapeutic Indications
The fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) is indicated for the treatment of human immunodeficiency virus-1 (HIV-1) infection in adults. Patients must not have experienced virological failure on any prior antiretroviral therapy and must be known not to have harboured virus strains with mutations conferring significant resistance to any of the three components contained in the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) prior to initiation of their first antiretroviral treatment regimen.

The demonstration of the benefit of the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) is primarily based on 48-week data from a clinical study in which patients with stable virologic suppression on a combination antiretroviral therapy changed to the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg). No data are currently available from clinical studies with the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) in treatment-naïve or in heavily pretreated patients. No data are available to support the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) and other antiretroviral agents.

Posology and method of administration
Therapy should be initiated by a physician experienced in the management of human immunodeficiency virus (HIV) infection.

Posology
Adults: The recommended dose of the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) is one tablet taken orally once daily.

If a patient misses a dose of the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) within 12 hours of the scheduled time, the patient should take the missed dose as soon as possible and resume their normal dosing schedule. If a patient misses a dose of the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) by more than 12 hours and it is almost time for their next dose, the patient should not take the missed dose and simply resume the usual dosing schedule.

If the patient vomits within 1 hour of taking the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg), the patient should not take another dose. If the patient vomits more than 1 hour after taking the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) they do not need to take another dose.

It is recommended that the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) be taken on an empty stomach since food may increase efavirenz exposure and may lead to an increase in the frequency of adverse reactions. In order to improve the tolerability to efavirenz with respect to undesirable effects on the nervous system, bedtime dosing is recommended.

It is anticipated that tenofovir exposure will be approximately 35% lower following administration of the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) on an empty stomach as compared to the individual component tenofovir disoproxil fumarate when taken with food. In virologically suppressed patients, the clinical relevance of this reduction can be expected to be limited. Further data on the clinical translation of the decrease in pharmacokinetic exposure are needed.

Where discontinuation of therapy with one of the components of the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) is indicated or where dose modification is necessary, separate preparations of efavirenz, emtricitabine and tenofovir disoproxil fumarate are necessary. These refer to the Summary of Product Characteristics for these medicinal products. If therapy with the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) is discontinued, consideration should be given to the long half-life of efavirenz and long intracellular half-lives of emtricitabine and tenofovir. Because of interpatient variability in these parameters and concerns regarding development of resistance, HIV treatment guidelines should be consulted, also taking into consideration the reason for discontinuation.

Dose adjustment: If the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) is co-administered with rifampicin, an additional 200 mg/day (800 mg total) of efavirenz may be considered.

Special populations
Paediatric population: The fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) is not recommended for use in children below 18 years of age due to lack of data on safety and efficacy.

Elderly: The fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) should be administered with caution to elderly patients.

Renal insufficiency: The fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) is not recommended for patients with moderate or severe renal impairment (creatinine clearance (CrCl) < 50 mL/min). Patients with moderate or severe renal impairment require dose interval adjustment of emtricitabine and tenofovir disoproxil fumarate that cannot be achieved with the combination tablet.

Hepatic impairment: The pharmacokinetics of the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) have not been studied in patients with hepatic impairment. Patients with mild-to-moderate liver disease (Child-Pugh-Turcotte (CPT, Grade A or B) may be treated with the normal recommended dose of the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg). Patients with moderate to severe liver disease should be monitored for adverse reactions, especially nervous system symptoms related to efavirenz. If the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) is discontinued in patients co-infected with HIV and HBV, these patients should be closely monitored for evidence of exacerbation of hepatitis.

Method of administration
It is recommended that the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) be swallowed whole with water, once daily.

Contraindications
Hypersensitivity to the active substances or to any of the excipients. The fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) should not be used in patients with severe hepatic impairment (CPT Class C). The fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) must not be administered concurrently with terfenadine, astemizole, cisapride, midazolam, triazolam, pimozide, bepridil, or ergot alkaloids (for example, ergotamine, dihydroergotamine, ergonovine, and methylergonovine), since inhibition of their metabolism may lead to serious, life-threatening events. Voriconazole: Co-administration of standard doses of efavirenz and voriconazole is contraindicated. Since the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) is a fixed-dose combination product, the dose of efavirenz cannot be altered; therefore, voriconazole and the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) must not be co-administered.

Special warnings and precautions for use
Co-administration with other medicinal products: The fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) should not be administered concomitantly with other medicinal products containing any of the same active components, efavirenz, emtricitabine or tenofovir disoproxil fumarate. Due to similarities with efavirenz, the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) should not be administered concomitantly with other cytidine analogues, such as lamivudine. The fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) should not be administered concomitantly with zalcitabine/didanosine.

Lactic acidosis: lactic acidosis, usually associated with hepatic steatosis, has been reported with the use of nucleoside analogues. Early symptoms (symptomatic hyperlactataemia) include benign digestive symptoms (nausea, vomiting and abdominal pain), non-specific malaise, loss of appetite, weight loss, respiratory symptoms (rapid and deep breathing) or neurological symptoms (including mild mental weakness). Lactic acidosis has a high mortality and may be associated with pancreatitis, liver failure or renal failure. Lactic acidosis generally occurred after a few or several months of treatment.

Treatment with nucleoside analogues may result in the setting of symptomatic hyperlactataemia and metabolic/lactic acidosis, progressive hepatomegaly, or rapidly elevating aminotransferase levels. Caution should be exercised when administering nucleoside analogues to any patient (particularly obese women) with hepatomegaly, hepatitis or hepatic steatosis. Liver failure and hepatic steatosis (including certain medicinal products and alcohol). Co-infection with hepatitis C and treatment with alpha interferon and ribavirin may constitute a special risk. Patients at increased risk must be followed closely.

Opportunistic infections: Patients receiving the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) or any other antiretroviral therapy may continue to develop opportunistic infections and other complications of HIV infection, and therefore should remain under close clinical observation by physicians experienced in the treatment of patients with HIV associated diseases.

Transmission of HIV: Patients must be advised that antiretroviral therapies, including the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg), have not been proven to prevent the risk of transmission of HIV to others through sexual contact or contamination with blood. Appropriate precautions must continue to be used.

Liver disease: The pharmacokinetics, safety and efficacy of the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) have not been established in patients with significant underlying liver disorders. The fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) is contraindicated in patients with severe hepatic impairment. Since efavirenz is principally metabolized by the cytochrome P450 (CYP450) system, caution should be exercised in administering the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) to patients with mild-to-moderate liver disease. These patients should be carefully monitored for efavirenz adverse reactions, especially nervous system symptoms. Laboratory tests should be performed to evaluate their liver disease at periodic intervals.

Patients with pre-existing liver dysfunction including chronic active hepatitis have an increased frequency of liver function abnormalities during combination antiretroviral therapy and should be monitored according to standard practice. If there is evidence of worsening liver disease or persistent elevations of serum transaminases to greater than 5 times the upper limit of the normal range, the benefit of continuing therapy with the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) needs to be weighed against the potential risks of significant liver toxicity. In such patients, interruption or discontinuation of treatment must be considered. In patients treated with other medicinal products associated with liver toxicity, monitoring of liver enzymes is also recommended.

Hepatic events: Post-marketing reports of hepatic failure also occurred in patients with no pre-existing hepatic disease or other identifiable risk factors. Liver enzyme monitoring should be considered for all patients independent of pre-existing hepatic dysfunction or other risk factors.

Patients with HIV and hepatitis B (HBV) or C virus (HCV) co-infection: Patients with chronic hepatitis B or C and treated with combination antiretroviral therapy are at an increased risk for severe and potentially fatal hepatic adverse reactions. Physicians should be current HIV treatment guidelines for the optimal management of HIV infection in patients co-infected with HBV.

In case of concomitant antiviral therapy for hepatitis B or C, please refer also to the relevant Summary of Product Characteristics for these medicinal products. The safety and efficacy of the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) have not been studied for the treatment of chronic HBV infection. Emtricitabine and tenofovir disoproxil fumarate in combination have been shown to be effective in the treatment of chronic HBV infection. Limited clinical experience suggests that emtricitabine and tenofovir disoproxil fumarate have an anti-HBV activity when used in antiretroviral combination therapy to control HIV infection. Discontinuation of the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) in patients co-infected with HIV and HBV may be associated with severe acute exacerbations of hepatitis. Patients co-infected with HIV and HBV who discontinue the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) should be closely monitored with both clinical and laboratory follow-up for at least four months after stopping treatment with the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg). If appropriate, resumption of anti-hepatitis B therapy should be considered. In patients with advanced liver disease or cirrhosis, treatment discontinuation is not recommended since post-treatment exacerbation of hepatitis may lead to hepatic decompensation.

Psychiatric symptoms: Psychiatric adverse reactions have been reported in patients treated with efavirenz. Patients with a prior history of psychiatric disorders appear to be at a greater risk of these serious psychiatric adverse reactions. In particular, severe depression was more common in those with a history of depression. There have also been post-marketing reports of severe depression, death by suicide, delusions and psychosis like behaviour. Patients should be monitored for these symptoms such as severe depression, psychosis or suicidal ideation, they should contact their doctor immediately to assess the possibility that the symptoms may be related to the use of efavirenz, and if so, to determine whether the risk continued therapy outweighs the benefits.

Nervous system symptoms: Symptoms including, but not limited to, dizziness, insomnia, somnolence, impaired concentration and abnormal dreaming are frequently reported undesirable effects in patients receiving efavirenz 600 mg daily in clinical studies. Dizziness was also seen in clinical studies with emtricitabine and tenofovir disoproxil fumarate. Headache has been reported in clinical studies with efavirenz. Nervous system symptoms associated with efavirenz usually begin during the first one or two days of therapy and generally resolve after the first two to four weeks. Patients should be informed that if they do occur, these common symptoms are likely to improve with continued therapy and are not predictive of subsequent onset of any of the less frequent psychiatric symptoms.

Seizures: Convulsions have been observed in patients receiving efavirenz, generally in the presence of a known medical history of seizures. Patients who are receiving concomitant anticonvulsant medicinal products primarily metabolized by the liver, such as phenytoin, carbamazepine and phenobarbital, may require periodic monitoring of plasma levels. In a drug interaction study, carbamazepine plasma concentrations were decreased when carbamazepine was co-administered with Efavirenz. Caution must be taken in any patient with a history of seizures.

Renal impairment: The fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) is not recommended for patients with moderate or severe renal impairment. Patients with moderate or severe renal impairment require a dose adjustment of emtricitabine and tenofovir disoproxil fumarate that cannot be achieved with the combination tablet. Use of the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) should be avoided with concurrent or recent use of a nephrotoxic medicinal product. If concomitant use of the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) and nephrotoxic agents (e.g. aminoglycosides, amphotericin B, foscarnet, ganciclovir, pentamidine, vancomycin, cidofovir, interferon-2) is unavoidable, renal function must be monitored weekly.

Renal failure, renal impairment, elevated creatinine, hypophosphatemia and proximal tubulopathy (including Fanconi syndrome) have been reported with the use of tenofovir disoproxil fumarate in clinical practice.

It is recommended that creatinine clearance is calculated in all patients prior to initiating therapy with the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) and renal function (creatinine clearance and serum phosphate) is also monitored every four weeks during the first year and then every three months. In patients with a history of renal dysfunction or in patients who are at risk for renal dysfunction, consideration must be given to more frequent monitoring of renal function.

If serum phosphate is < 1.5 mg/dL (0.48 mmol/L) or creatinine clearance is decreased to < 50 mL/min in any patient receiving the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg), renal function must be re-evaluated within one week, including measurements of blood glucose, blood potassium and urine glucose concentration. Emtricitabine should include evaluation for physical signs of fat if the individual components cannot be altered, treatment with the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) must be interrupted in patients with confirmed creatinine clearance < 30 mL/min. Use of the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) is indicated or where dose modification is necessary, separate preparations of efavirenz, emtricitabine and tenofovir disoproxil fumarate are available.

Skin reactions: Mild-to-moderate rash has been reported with the individual components of the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg). The rash associated with the efavirenz component usually resolves with continued therapy. Appropriate antihistamines and/or corticosteroids may be used. Severe skin reactions, including severe rash associated with blistering, mucosal involvement or ulceration has been reported in less than 1% of patients treated with efavirenz. The incidence of erythema multiforme or Stevens-Johnson syndrome was approximately 0.1%. The fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) must be discontinued in patients developing severe rash associated with blistering, desquamation, mucosal involvement or ulceration. Patients who discontinued treatment with other non-nucleoside reverse transcriptase inhibitors due to rash may be at higher risk of developing rash during treatment with the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg). The fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) should be avoided with concurrent or recent use of a nephrotoxic medicinal product. If concomitant use of the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) and nephrotoxic agents (e.g. aminoglycosides, amphotericin B, foscarnet, ganciclovir, pentamidine, vancomycin, cidofovir, interferon-2) is unavoidable, renal function must be monitored weekly.

Renal failure, renal impairment, elevated creatinine, hypophosphatemia and proximal tubulopathy (including Fanconi syndrome) have been reported with the use of tenofovir disoproxil fumarate in clinical practice. It is recommended that creatinine clearance is calculated in all patients prior to initiating therapy with the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) and renal function (creatinine clearance and serum phosphate) is also monitored every four weeks during the first year and then every three months. In patients with a history of renal dysfunction or in patients who are at risk for renal dysfunction, consideration must be given to more frequent monitoring of renal function. If serum phosphate is < 1.5 mg/dL (0.48 mmol/L) or creatinine clearance is decreased to < 50 mL/min in any patient receiving the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg), renal function must be re-evaluated within one week, including measurements of blood glucose, blood potassium and urine glucose concentration. Emtricitabine should include evaluation for physical signs of fat if the individual components cannot be altered, treatment with the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) must be interrupted in patients with confirmed creatinine clearance < 30 mL/min. Use of the fixed-dose combination (Efavirenz 600 mg/ Emtricitabine 200 mg/ Tenofovir disoproxil fumarate 300 mg) is indicated or where dose modification is necessary, separate preparations of efavirenz, emtricitabine and tenofovir disoproxil fumarate are available.

Lipidostrophy and metabolic abnormalities: Combination antiretroviral therapy has been associated with the redistribution of body fat (lipodystrophy) in HIV patients. The long-term consequences of these events are currently unknown. Knowledge about the mechanism is incomplete. A connection between visceral lipomatosis and protease inhibitors (PI) and between protease inhibitors and metabolic disorders (hyperlipidaemia) has been hypothesised. A higher risk of lipodystrophy has been associated with individual factors such as older age, and with drug-related factors such as longer duration of antiretroviral treatment and associated metabolic disturbances. Clinical experience with nucleoside reverse transcriptase inhibitors (NRTIs) has been hypothesised. A higher risk of lipodystrophy has been associated with individual factors such as older age, and with drug-related factors such as longer duration of antiretroviral treatment and associated metabolic disturbances. 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