

ISENTRESS- isentress tablet, film coated DIRECT RX

ISENTRESS

ISENTRESS® is indicated in combination with other antiretroviral agents for the treatment of human immunodeficiency virus (HIV-1) infection in patients 4 weeks of age and older.

The use of other active agents with ISENTRESS is associated with a greater likelihood of treatment response [see CLINICAL STUDIES (14)].

2.1 General Dosing Recommendations

ISENTRESS Film-Coated Tablets, Chewable Tablets and For Oral Suspension can be administered with or without food [see CLINICAL PHARMACOLOGY (12.3)].

Because the formulations are not bioequivalent, do not substitute ISENTRESS chewable tablets or ISENTRESS for oral suspension for the ISENTRESS 400 mg film-coated tablet. See specific dosing guidance for chewable tablets and the formulation for oral suspension.

During coadministration of ISENTRESS 400 mg film-coated tablets with rifampin, the recommended dosage of ISENTRESS is 800 mg twice daily in adults. There are no data to guide co-administration of ISENTRESS with rifampin in patients below 18 years of age [see DRUG INTERACTIONS (7.2)].

Maximum dose of chewable tablets is 300 mg twice daily.

Maximum dose of oral suspension is 100 mg twice daily.

Each single-use packet for oral suspension contains 100 mg of raltegravir which is suspended in 5 mL of water giving a final concentration of 20 mg/mL.

2.2 Adults

For the treatment of adult patients with HIV-1 infection, the dosage of ISENTRESS is one 400 mg film-coated tablet administered orally, twice daily.

2.3 Pediatrics

If at least 25 kg: One 400 mg film-coated tablet orally, twice daily.

If unable to swallow a tablet, consider the chewable tablet, as specified in Table 1.

Table 1: Alternative Dose* with ISENTRESS Chewable Tablets for Pediatric Patients Weighing at Least 25 kg

Body Weight

(kg) Dose Number of Chewable Tablets

* The weight-based dosing recommendation for the chewable tablet is based on approximately 6 mg/kg/dose twice daily [see CLINICAL PHARMACOLOGY (12.3)]. † The 100 mg chewable tablet can be divided into equal halves.

25 to less than 28 150 mg twice daily 1.5 × 100 mg† twice daily

28 to less than 40 200 mg twice daily 2 × 100 mg twice daily

At least 40 300 mg twice daily 3 × 100 mg twice daily

If at least 4 weeks of age and weighing at least 3 kg to less than 25 kg: Weight based dosing, as specified in Table 2.

For patients weighing between 11 and 20 kg, either the chewable tablet or oral suspension can be used, as specified in Table 2. Patients can remain on the oral suspension as long as their weight is below 20 kg. Refer to Table 2 for appropriate dosing [see CLINICAL STUDIES (14.3)].

Table 2: Recommended Dose* for ISENTRESS For Oral Suspension and Chewable Tablets in Pediatric Patients Weighing Less than 25 kg

Body Weight

(kg) Volume (Dose) of Suspension to be Administered Number of Chewable Tablets

* The weight-based dosing recommendation for the chewable tablet and oral suspension is based on approximately 6 mg/kg/dose twice daily [see CLINICAL PHARMACOLOGY (12.3)]. † For weight between 11 and 20 kg either formulation can be used.

Note: The chewable tablets are available as 25 mg and 100 mg tablets. ‡ The 100 mg chewable tablet can be divided into equal halves.

3 to less than 4 1 mL (20 mg) twice daily

4 to less than 6 1.5 mL (30 mg) twice daily

6 to less than 8 2 mL (40 mg) twice daily

8 to less than 11 3 mL (60 mg) twice daily

11 to less than 14† 4 mL (80 mg) twice daily 3 × 25 mg twice daily

14 to less than 20† 5 mL (100 mg) twice daily 1 × 100 mg twice daily

20 to less than 25 1.5 × 100 mg‡ twice daily

2.4 Method of Administration

ISENTRESS Film-Coated Tablets

Film-Coated Tablets must be swallowed whole

ISENTRESS Chewable Tablets

Chewable Tablets may be chewed or swallowed whole

ISENTRESS For Oral Suspension

Each single-use ISENTRESS packet for oral suspension contains 100 mg of raltegravir which is to be suspended in 5 mL of water giving a final concentration of 20 mg/mL.

Pour packet contents of ISENTRESS for oral suspension into 5 mL of water and mix. Once mixed, measure the recommended volume (dose) of suspension with a syringe and administer the dose orally.

The volume (dose) of suspension should be administered orally within 30 minutes of mixing.

Discard any remaining suspension.

For more details on preparation and administration of the suspension, see INSTRUCTIONS FOR USE.

Film-coated Tablets

400 mg pink, oval-shaped, film-coated tablets with "227" on one side.

Chewable Tablets

100 mg pale orange, oval-shaped, orange-banana flavored, chewable tablets scored on both sides and imprinted on one face with the Merck logo and "477" on opposite sides of the score.

25 mg pale yellow, round, orange-banana flavored, chewable tablets with the Merck logo on one side and "473" on the other side.

For Oral Suspension

100 mg white to off-white, banana flavored, granular powder that may contain yellow or beige to tan particles in a child resistant single-use foil packet.

5.1 Severe Skin and Hypersensitivity Reactions

Severe, potentially life-threatening, and fatal skin reactions have been reported. These include cases of Stevens-Johnson syndrome and toxic epidermal necrolysis.

Hypersensitivity reactions have also been reported and were characterized by rash,

constitutional findings, and sometimes, organ dysfunction, including hepatic failure. Discontinue ISENTRESS and other suspect agents immediately if signs or symptoms of severe skin reactions or hypersensitivity reactions develop (including, but not limited to, severe rash or rash accompanied by fever, general malaise, fatigue, muscle or joint aches, blisters, oral lesions, conjunctivitis, facial edema, hepatitis, eosinophilia, angioedema). Clinical status including liver aminotransferases should be monitored and appropriate therapy initiated. Delay in stopping ISENTRESS treatment or other suspect agents after the onset of severe rash may result in a life-threatening reaction.

5.2 Immune Reconstitution Syndrome

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

5.3 Phenylketonurics

ISENTRESS Chewable Tablets contain phenylalanine, a component of aspartame. Each 25 mg ISENTRESS Chewable Tablet contains approximately 0.05 mg phenylalanine. Each 100 mg ISENTRESS Chewable Tablet contains approximately 0.10 mg phenylalanine. Phenylalanine can be harmful to patients with phenylketonuria.

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

6.1 Clinical Trials Experience

Treatment-Naïve Adults

The following safety assessment of ISENTRESS in treatment-naïve subjects is based on the randomized double-blind active controlled study of treatment-naïve subjects, STARTMRK (Protocol 021) with ISENTRESS 400 mg twice daily in combination with a fixed dose of emtricitabine 200 mg (+) tenofovir 300 mg, (N=281) versus efavirenz (EFV) 600 mg at bedtime in combination with emtricitabine (+) tenofovir, (N=282). During double-blind treatment, the total follow-up for subjects receiving ISENTRESS 400 mg twice daily + emtricitabine (+) tenofovir was 1104 patient-years and 1036 patient-years for subjects receiving efavirenz 600 mg at bedtime + emtricitabine (+) tenofovir.

In Protocol 021, the rate of discontinuation of therapy due to adverse events was 5% in subjects receiving ISENTRESS + emtricitabine (+) tenofovir and 10% in subjects receiving efavirenz + emtricitabine (+) tenofovir.

The clinical adverse drug reactions (ADRs) listed below were considered by investigators to be causally related to ISENTRESS + emtricitabine (+) tenofovir or efavirenz + emtricitabine (+) tenofovir. Clinical ADRs of moderate to severe intensity occurring in $\geq 2\%$ of treatment-naïve subjects treated with ISENTRESS are presented in Table 3.

Table 3: Adverse Drug Reactions* of Moderate to Severe Intensity† Occurring in $\geq 2\%$ of

Treatment-Naïve Adult Subjects Receiving ISENTRESS (240 Week Analysis)
System Organ Class, Preferred Term Randomized Study Protocol 021
ISENTRESS 400 mg
Twice Daily + Emtricitabine (+) Tenofovir
(n = 281) Efavirenz 600 mg
At Bedtime + Emtricitabine (+) Tenofovir
(n = 282)

n = total number of subjects per treatment group

* Includes adverse experiences considered by investigators to be at least possibly, probably, or definitely related to the drug. † Intensities are defined as follows: Moderate (discomfort enough to cause interference with usual activity); Severe (incapacitating with inability to work or do usual activity).

Gastrointestinal Disorders

Nausea 3% 4%

General Disorders and Administration

Fatigue 2% 3%

Nervous System Disorders

Headache 4% 5%

Dizziness 2% 6%

Psychiatric Disorders

Insomnia 4% 4%

Laboratory Abnormalities

The percentages of adult subjects treated with ISENTRESS 400 mg twice daily or efavirenz in Protocol 021 with selected Grades 2 to 4 laboratory abnormalities that represent a worsening Grade from baseline are presented in Table 4.

Table 4: Selected Grade 2 to 4 Laboratory Abnormalities Reported in Treatment-Naïve Subjects (240 Week Analysis)

Randomized Study Protocol 021

Laboratory Parameter Preferred Term (Unit) Limit ISENTRESS 400 mg

Twice Daily + Emtricitabine (+) Tenofovir

(N = 281) Efavirenz 600 mg

At Bedtime + Emtricitabine (+) Tenofovir

(N = 282)

ULN = Upper limit of normal range

Hematology

Absolute neutrophil count (10³/μL)

Grade 2 0.75 - 0.999 3% 5%

Grade 3 0.50 - 0.749 3% 1%

Grade 4 <0.50 1% 1%

Hemoglobin (gm/dL)

Grade 2 7.5 - 8.4 1% 1%

Grade 3 6.5 - 7.4 1% 1%

Grade 4 <6.5 <1% 0%

Platelet count (10³/μL)

Grade 2 50 - 99.999 1% 0%

Grade 3 25 - 49.999 <1% <1%

Grade 4 <25 0% 0%

Blood chemistry

Fasting (non-random) serum glucose test (mg/dL)

Grade 2 126 - 250 7% 6%
 Grade 3 251 - 500 2% 1%
 Grade 4 >500 0% 0%
 Total serum bilirubin
 Grade 2 1.6 - 2.5 × ULN 5% <1%
 Grade 3 2.6 - 5.0 × ULN 1% 0%
 Grade 4 >5.0 × ULN <1% 0%
 Serum aspartate aminotransferase
 Grade 2 2.6 - 5.0 × ULN 8% 10%
 Grade 3 5.1 - 10.0 × ULN 5% 3%
 Grade 4 >10.0 × ULN 1% <1%
 Serum alanine aminotransferase
 Grade 2 2.6 - 5.0 × ULN 11% 12%
 Grade 3 5.1 - 10.0 × ULN 2% 2%
 Grade 4 >10.0 × ULN 2% 1%
 Serum alkaline phosphatase
 Grade 2 2.6 - 5.0 × ULN 1% 3%
 Grade 3 5.1 - 10.0 × ULN 0% 1%
 Grade 4 >10.0 × ULN <1% <1%
 Lipids, Change from Baseline

Changes from baseline in fasting lipids are shown in Table 5.

Table 5: Lipid Values, Mean Change from Baseline, Protocol 021
 Laboratory Parameter Preferred Term ISENTRESS 400 mg

Twice Daily + Emtricitabine (+) Tenofovir
 N = 207 Efavirenz 600 mg
 At Bedtime + Emtricitabine (+) Tenofovir
 N = 187

Change from Baseline at
 Week 240 Change from Baseline at
 Week 240

Baseline
 Mean Week 240
 Mean Mean Change Baseline
 Mean Week 240
 Mean Mean Change
 (mg/dL) (mg/dL) (mg/dL) (mg/dL) (mg/dL) (mg/dL)

Notes:

N = total number of subjects per treatment group with at least one lipid test result available. The analysis is based on all available data.

If subjects initiated or increased serum lipid-reducing agents, the last available lipid values prior to the change in therapy were used in the analysis. If the missing data was due to other reasons, subjects were censored thereafter for the analysis. At baseline, serum lipid-reducing agents were used in 5% of subjects in the group receiving ISENTRESS and 3% in the efavirenz group. Through Week 240, serum lipid-reducing agents were used in 9% of subjects in the group receiving ISENTRESS and 15% in the efavirenz group.

* Fasting (non-random) laboratory tests at Week 240.

LDL-Cholesterol* 96 106 10 93 118 25

HDL-Cholesterol* 38 44 6 38 51 13

Total Cholesterol* 159 175 16 157 201 44

Triglyceride* 128 130 2 141 178 37

Treatment-Experienced Adults

The safety assessment of ISENTRESS in treatment-experienced subjects is based on the pooled safety data from the randomized, double-blind, placebo-controlled trials, BENCHMRK 1 and BENCHMRK 2 (Protocols 018 and 019) in antiretroviral treatment-experienced HIV-1 infected adult subjects. A total of 462 subjects received the recommended dose of ISENTRESS 400 mg twice daily in combination with optimized background therapy (OBT) compared to 237 subjects taking placebo in combination with OBT. The median duration of therapy in these trials was 96 weeks for subjects receiving ISENTRESS and 38 weeks for subjects receiving placebo. The total exposure to ISENTRESS was 708 patient-years versus 244 patient-years on placebo. The rates of discontinuation due to adverse events were 4% in subjects receiving ISENTRESS and 5% in subjects receiving placebo.

Clinical ADRs were considered by investigators to be causally related to ISENTRESS + OBT or placebo + OBT. Clinical ADRs of moderate to severe intensity occurring in $\geq 2\%$ of subjects treated with ISENTRESS and occurring at a higher rate compared to placebo are presented in Table 6.

Table 6: Adverse Drug Reactions* of Moderate to Severe Intensity† Occurring in $\geq 2\%$ of Treatment-Experienced Adult Subjects Receiving ISENTRESS and at a Higher Rate Compared to Placebo (96 Week Analysis)

System Organ Class, Adverse Reactions Randomized Studies Protocol 018 and 019
ISENTRESS 400 mg Twice Daily + OBT

(n = 462) Placebo + OBT

(n = 237)

Nervous System Disorders

n=total number of subjects per treatment group.

* Includes adverse reactions at least possibly, probably, or definitely related to the drug.

† Intensities are defined as follows: Moderate (discomfort enough to cause interference with usual activity); Severe (incapacitating with inability to work or do usual activity).

Headache 2% <1%

Laboratory Abnormalities

The percentages of adult subjects treated with ISENTRESS 400 mg twice daily or placebo in Protocols 018 and 019 with selected Grade 2 to 4 laboratory abnormalities representing a worsening Grade from baseline are presented in Table 7.

Table 7: Selected Grade 2 to 4 Laboratory Abnormalities Reported in Treatment-Experienced Subjects (96 Week Analysis)

Randomized Studies Protocol 018 and 019

Laboratory Parameter Preferred Term (Unit) Limit ISENTRESS 400 mg Twice Daily + OBT

(N = 462) Placebo + OBT

(N = 237)

ULN = Upper limit of normal range

Hematology

Absolute neutrophil count (103/ μ L)

Grade 2 0.75 - 0.999 4% 5%

Grade 3 0.50 - 0.749 3% 3%

Grade 4 <0.50 1% <1%

Hemoglobin (gm/dL)

Grade 2 7.5 - 8.4 1% 3%

Grade 3 6.5 - 7.4 1% 1%

Grade 4 <6.5 <1% 0%

Platelet count (10³/μL)

Grade 2 50 - 99.999 3% 5%

Grade 3 25 - 49.999 1% <1%

Grade 4 <25 1% <1%

Blood chemistry

Fasting (non-random) serum glucose test (mg/dL)

Grade 2 126 - 250 10% 7%

Grade 3 251 - 500 3% 1%

Grade 4 >500 0% 0%

Total serum bilirubin

Grade 2 1.6 - 2.5 × ULN 6% 3%

Grade 3 2.6 - 5.0 × ULN 3% 3%

Grade 4 >5.0 × ULN 1% 0%

Serum aspartate aminotransferase

Grade 2 2.6 - 5.0 × ULN 9% 7%

Grade 3 5.1 - 10.0 × ULN 4% 3%

Grade 4 >10.0 × ULN 1% 1%

Serum alanine aminotransferase

Grade 2 2.6 - 5.0 × ULN 9% 9%

Grade 3 5.1 - 10.0 × ULN 4% 2%

Grade 4 >10.0 × ULN 1% 2%

Serum alkaline phosphatase

Grade 2 2.6 - 5.0 × ULN 2% <1%

Grade 3 5.1 - 10.0 × ULN <1% 1%

Grade 4 >10.0 × ULN 1% <1%

Serum pancreatic amylase test

Grade 2 1.6 - 2.0 × ULN 2% 1%

Grade 3 2.1 - 5.0 × ULN 4% 3%

Grade 4 >5.0 × ULN <1% <1%

Serum lipase test

Grade 2 1.6 - 3.0 × ULN 5% 4%

Grade 3 3.1 - 5.0 × ULN 2% 1%

Grade 4 >5.0 × ULN 0% 0%

Serum creatine kinase

Grade 2 6.0 - 9.9 × ULN 2% 2%

Grade 3 10.0 - 19.9 × ULN 4% 3%

Grade 4 ≥20.0 × ULN 3% 1%

Less Common Adverse Reactions Observed in Treatment-Naïve and Treatment-Experienced Studies

The following ADRs occurred in <2% of treatment-naïve or treatment-experienced subjects receiving ISENTRESS in a combination regimen. These events have been included because of their seriousness, increased frequency on ISENTRESS compared with efavirenz or placebo, or investigator's assessment of potential causal relationship.

Gastrointestinal Disorders: abdominal pain, gastritis, dyspepsia, vomiting

General Disorders and Administration Site Conditions: asthenia

Hepatobiliary Disorders: hepatitis

Immune System Disorders: hypersensitivity

Infections and Infestations: genital herpes, herpes zoster

Psychiatric Disorders: depression (particularly in subjects with a pre-existing history of psychiatric illness), including suicidal ideation and behaviors

Renal and Urinary Disorders: nephrolithiasis, renal failure

Selected Adverse Events - Adults

Cancers were reported in treatment-experienced subjects who initiated ISENTRESS or placebo, both with OBT, and in treatment-naïve subjects who initiated ISENTRESS or efavirenz, both with emtricitabine (+) tenofovir; several were recurrent. The types and rates of specific cancers were those expected in a highly immunodeficient population (many had CD4+ counts below 50 cells/mm³ and most had prior AIDS diagnoses). The risk of developing cancer in these studies was similar in the group receiving ISENTRESS and the group receiving the comparator.

Grade 2-4 creatine kinase laboratory abnormalities were observed in subjects treated with ISENTRESS (see TABLE 7). Myopathy and rhabdomyolysis have been reported. Use with caution in patients at increased risk of myopathy or rhabdomyolysis, such as patients receiving concomitant medications known to cause these conditions and patients with a history of rhabdomyolysis, myopathy or increased serum creatine kinase.

Rash occurred more commonly in treatment-experienced subjects receiving regimens containing ISENTRESS + darunavir/ritonavir compared to subjects receiving ISENTRESS without darunavir/ritonavir or darunavir/ritonavir without ISENTRESS. However, rash that was considered drug related occurred at similar rates for all three groups. These rashes were mild to moderate in severity and did not limit therapy; there were no discontinuations due to rash.

Patients with Co-existing Conditions - Adults

Patients Co-infected with Hepatitis B and/or Hepatitis C Virus

In the randomized, double-blind, placebo-controlled trials, treatment-experienced subjects (N = 114/699 or 16%) and treatment-naïve subjects (N = 34/563 or 6%) with chronic (but not acute) active hepatitis B and/or hepatitis C virus co-infection were permitted to enroll provided that baseline liver function tests did not exceed 5 times the upper limit of normal (ULN). In general the safety profile of ISENTRESS in subjects with hepatitis B and/or hepatitis C virus co-infection was similar to that in subjects without hepatitis B and/or hepatitis C virus co-infection, although the rates of AST and ALT abnormalities were higher in the subgroup with hepatitis B and/or hepatitis C virus co-infection for all treatment groups. At 96 weeks, in treatment-experienced subjects, Grade 2 or higher laboratory abnormalities that represent a worsening Grade from baseline of AST, ALT or total bilirubin occurred in 29%, 34% and 13%, respectively, of co-infected subjects treated with ISENTRESS as compared to 11%, 10% and 9% of all other subjects treated with ISENTRESS. At 240 weeks, in treatment-naïve subjects, Grade 2 or higher laboratory abnormalities that represent a worsening Grade from baseline of AST, ALT or total bilirubin occurred in 22%, 44% and 17%, respectively, of

co-infected subjects treated with ISENTRESS as compared to 13%, 13% and 5% of all other subjects treated with ISENTRESS.

Pediatrics

2 to 18 Years of Age

ISENTRESS has been studied in 126 antiretroviral treatment-experienced HIV-1 infected children and adolescents 2 to 18 years of age, in combination with other antiretroviral agents in IMPAACT P1066 [see USE IN SPECIFIC POPULATIONS (8.4) and CLINICAL STUDIES (14.3)]. Of the 126 patients, 96 received the recommended dose of ISENTRESS.

In these 96 children and adolescents, frequency, type and severity of drug related adverse reactions through Week 24 were comparable to those observed in adults.

One patient experienced drug related clinical adverse reactions of Grade 3 psychomotor hyperactivity, abnormal behavior and insomnia; one patient experienced a Grade 2 serious drug related allergic rash.

One patient experienced drug related laboratory abnormalities, Grade 4 AST and Grade 3 ALT, which were considered serious.

4 Weeks to less than 2 Years of Age

ISENTRESS has also been studied in 26 HIV-1 infected infants and toddlers 4 weeks to less than 2 years of age, in combination with other antiretroviral agents in IMPAACT P1066 [see USE IN SPECIFIC POPULATIONS (8.4) and CLINICAL STUDIES (14.3)].

In these 26 infants and toddlers, the frequency, type and severity of drug-related adverse reactions through Week 48 were comparable to those observed in adults.

One patient experienced a Grade 3 serious drug-related allergic rash that resulted in treatment discontinuation.

6.2 Postmarketing Experience

The following adverse reactions have been identified during postapproval use of ISENTRESS. 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.

Blood and Lymphatic System Disorders: thrombocytopenia

Gastrointestinal Disorders: diarrhea

Hepatobiliary Disorders: hepatic failure (with and without associated hypersensitivity) in patients with underlying liver disease and/or concomitant medications

Musculoskeletal and Connective Tissue Disorders: rhabdomyolysis

Nervous System Disorders: cerebellar ataxia

Psychiatric Disorders: anxiety, paranoia

7.1 Effect of Raltegravir on the Pharmacokinetics of Other Agents

Raltegravir does not inhibit ($IC_{50} > 100 \mu M$) CYP1A2, CYP2B6, CYP2C8, CYP2C9, CYP2C19, CYP2D6 or CYP3A in vitro. Moreover, in vitro, raltegravir did not induce CYP1A2, CYP2B6 or CYP3A4. A midazolam drug interaction study confirmed the low propensity of raltegravir to alter the pharmacokinetics of agents metabolized by CYP3A4

in vivo by demonstrating a lack of effect of raltegravir on the pharmacokinetics of midazolam, a sensitive CYP3A4 substrate. Similarly, raltegravir is not an inhibitor ($IC_{50} > 50 \mu M$) of UGT1A1 or UGT2B7, and raltegravir does not inhibit P-glycoprotein-mediated transport. Based on these data, ISENTRESS is not expected to affect the pharmacokinetics of drugs that are substrates of these enzymes or P-glycoprotein (e.g., protease inhibitors, NNRTIs, opioid analgesics, statins, azole antifungals, proton pump inhibitors and anti-erectile dysfunction agents).

7.2 Effect of Other Agents on the Pharmacokinetics of Raltegravir

Raltegravir is not a substrate of cytochrome P450 (CYP) enzymes. Based on in vivo and in vitro studies, raltegravir is eliminated mainly by metabolism via a UGT1A1-mediated glucuronidation pathway. Coadministration of ISENTRESS with drugs that inhibit UGT1A1 may increase plasma levels of raltegravir and coadministration of ISENTRESS with drugs that induce UGT1A1, such as rifampin, may reduce plasma levels of raltegravir.

The impact of other inducers of drug metabolizing enzymes, such as phenytoin and phenobarbital, on UGT1A1 is unknown.

Selected drug interactions are presented in Table 8 [see CLINICAL PHARMACOLOGY (12.3)].

Table 8: Selected Drug Interactions in Adults

Concomitant Drug Class:

Drug Name Effect on Concentration of Raltegravir Clinical Comment

Metal-Containing Antacids

aluminum and/or magnesium-containing antacids ↓ Coadministration or staggered administration of aluminum and/or magnesium hydroxide-containing antacids and ISENTRESS is not recommended.

Other Agents

rifampin ↓ The recommended dosage of ISENTRESS is 800 mg twice daily during coadministration with rifampin. There are no data to guide co-administration of ISENTRESS with rifampin in patients below 18 years of age [see DOSAGE AND ADMINISTRATION (2.1)].

7.3 Drugs without Clinically Significant Interactions with ISENTRESS

In drug interaction studies, raltegravir did not have a clinically meaningful effect on the pharmacokinetics of the following: hormonal contraceptives, methadone, lamivudine, tenofovir, etravirine, darunavir/ritonavir, or boceprevir. Moreover, atazanavir, atazanavir/ritonavir, boceprevir, calcium carbonate antacids, darunavir/ritonavir, efavirenz, etravirine, omeprazole, or tipranavir/ritonavir did not have a clinically meaningful effect on the pharmacokinetics of raltegravir. No dose adjustment is required when ISENTRESS is coadministered with these drugs.

8.1 Pregnancy

Pregnancy Category C

ISENTRESS should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. There are no adequate and well-controlled studies in pregnant women. In addition, there have been no pharmacokinetic studies conducted in pregnant patients.

Developmental toxicity studies were performed in rabbits (at oral doses up to 1000 mg/kg/day) and rats (at oral doses up to 600 mg/kg/day). The reproductive toxicity study in rats was performed with pre-, peri-, and postnatal evaluation. The highest

doses in these studies produced systemic exposures in these species approximately 3- to 4-fold the exposure at the recommended human dose. In both rabbits and rats, no treatment-related effects on embryonic/fetal survival or fetal weights were observed. In addition, no treatment-related external, visceral, or skeletal changes were observed in rabbits. However, treatment-related increases over controls in the incidence of supernumerary ribs were seen in rats at 600 mg/kg/day (exposures 3-fold the exposure at the recommended human dose).

Placenta transfer of drug was demonstrated in both rats and rabbits. At a maternal dose of 600 mg/kg/day in rats, mean drug concentrations in fetal plasma were approximately 1.5- to 2.5-fold greater than in maternal plasma at 1 hour and 24 hours postdose, respectively. Mean drug concentrations in fetal plasma were approximately 2% of the mean maternal concentration at both 1 and 24 hours postdose at a maternal dose of 1000 mg/kg/day in rabbits.

Antiretroviral Pregnancy Registry

To monitor maternal-fetal outcomes of pregnant patients exposed to ISENTRESS, an Antiretroviral Pregnancy Registry has been established. Physicians are encouraged to register patients by calling 1-800-258-4263.

8.3 Nursing Mothers

Breastfeeding is not recommended while taking ISENTRESS. In addition, it is recommended that HIV-1-infected mothers not breastfeed their infants to avoid risking postnatal transmission of HIV-1.

It is not known whether raltegravir is secreted in human milk. However, raltegravir is secreted in the milk of lactating rats. Mean drug concentrations in milk were approximately 3-fold greater than those in maternal plasma at a maternal dose of 600 mg/kg/day in rats. There were no effects in rat offspring attributable to exposure of ISENTRESS through the milk.

8.4 Pediatric Use

The safety, tolerability, pharmacokinetic profile, and efficacy of ISENTRESS were evaluated in HIV-1 infected infants, children and adolescents 4 weeks to 18 years of age in an open-label, multicenter clinical trial, IMPAACT P1066 [see CLINICAL PHARMACOLOGY (12.3) and CLINICAL STUDIES (14.3)]. The safety profile was comparable to that observed in adults [see ADVERSE REACTIONS (6.1)]. See DOSAGE AND ADMINISTRATION (2.3) for dosing recommendations for children 4 weeks of age and older. The safety and dosing information for ISENTRESS have not been established in infants less than 4 weeks of age.

8.5 Geriatric Use

Clinical studies of ISENTRESS did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. Other reported clinical experience has not identified differences in responses between the elderly and younger subjects. In general, dose selection for an elderly patient should be cautious, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy.

8.6 Use in Patients with Hepatic Impairment

No clinically important pharmacokinetic differences between subjects with moderate hepatic impairment and healthy subjects were observed. No dosage adjustment is necessary for patients with mild to moderate hepatic impairment. The effect of severe

hepatic impairment on the pharmacokinetics of raltegravir has not been studied [see CLINICAL PHARMACOLOGY (12.3)].

8.7 Use in Patients with Renal Impairment

No clinically important pharmacokinetic differences between subjects with severe renal impairment and healthy subjects were observed. No dosage adjustment is necessary [see CLINICAL PHARMACOLOGY (12.3)].

No specific information is available on the treatment of overdose with ISENTRESS. Doses as high as 1600-mg single dose and 800-mg twice-daily multiple doses were studied in healthy volunteers without evidence of toxicity. Occasional doses of up to 1800 mg per day were taken in the clinical studies of HIV-1 infected subjects without evidence of toxicity.

In the event of an overdose, it is reasonable to employ the standard supportive measures, e.g., remove unabsorbed material from the gastrointestinal tract, employ clinical monitoring (including obtaining an electrocardiogram), and institute supportive therapy if required. The extent to which ISENTRESS may be dialyzable is unknown.

ISENTRESS contains raltegravir potassium, a human immunodeficiency virus integrase strand transfer inhibitor. The chemical name for raltegravir potassium is N-[(4-Fluorophenyl) methyl]-1,6-dihydro-5-hydroxy-1-methyl-2-[1-methyl-1-[(5-methyl-1,3,4-oxadiazol-2-yl)carbonyl]amino]ethyl]-6-oxo-4-pyrimidinecarboxamide monopotassium salt.

The empirical formula is C₂₀H₂₀FKN₆O₅ and the molecular weight is 482.51. The structural formula is:

Chemical Structure

Raltegravir potassium is a white to off-white powder. It is soluble in water, slightly soluble in methanol, very slightly soluble in ethanol and acetonitrile and insoluble in isopropanol.

Each 400 mg film-coated tablet of ISENTRESS for oral administration contains 434.4 mg of raltegravir (as potassium salt), equivalent to 400 mg of raltegravir free phenol and the following inactive ingredients: calcium phosphate dibasic anhydrous, hypromellose 2208, lactose monohydrate, magnesium stearate, microcrystalline cellulose, poloxamer 407 (contains 0.01% butylated hydroxytoluene as antioxidant), sodium stearyl fumarate. In addition, the film coating contains the following inactive ingredients: black iron oxide, polyethylene glycol 3350, polyvinyl alcohol, red iron oxide, talc and titanium dioxide.

Each 100 mg chewable tablet of ISENTRESS for oral administration contains 108.6 mg of raltegravir (as potassium salt), equivalent to 100 mg of raltegravir free phenol and the following inactive ingredients: ammonium hydroxide, crospovidone, ethylcellulose 20 cP, fructose, hydroxypropyl cellulose, hypromellose 2910/6cP, magnesium stearate, mannitol, medium chain triglycerides, monoammonium glycyrrhizinate, natural and artificial flavors (orange, banana, and masking that contains aspartame), oleic acid, PEG 400, red iron oxide, saccharin sodium, sodium citrate dihydrate, sodium stearyl fumarate, sorbitol, sucralose and yellow iron oxide.

Each 25 mg chewable tablet of ISENTRESS for oral administration contains 27.16 mg of raltegravir (as potassium salt), equivalent to 25 mg of raltegravir free phenol and the following inactive ingredients: ammonium hydroxide, crospovidone, ethylcellulose 20 cP, fructose, hydroxypropyl cellulose, hypromellose 2910/6cP, magnesium stearate, mannitol, medium chain triglycerides, monoammonium glycyrrhizinate, natural and

artificial flavors (orange, banana, and masking that contains aspartame), oleic acid, PEG 400, saccharin sodium, sodium citrate dihydrate, sodium stearyl fumarate, sorbitol, sucralose and yellow iron oxide.

Each packet of ISENTRESS for oral suspension 100 mg, contains 108.6 mg of raltegravir (as potassium salt), equivalent to 100 mg of raltegravir free phenol and the following inactive ingredients: ammonium hydroxide, banana with other natural flavors, carboxymethylcellulose sodium, croscopovidone, ethylcellulose 20 cP, fructose, hydroxypropyl cellulose, hypromellose 2910/6cP, macrogol/PEG 400, magnesium stearate, maltodextrin, mannitol, medium chain triglycerides, microcrystalline cellulose, monoammonium glycyrrhizinate, oleic acid, sorbitol, sucralose and sucrose.

antacid 3000 mg single dose given with raltegravir 400 mg twice daily 24 0.48

(0.36, 0.63) 0.45

(0.35, 0.57) 0.68

(0.53, 0.87)

efavirenz 600 mg daily 400 mg single dose 9 0.64 (0.41, 0.98) 0.64 (0.52, 0.80) 0.79

(0.49, 1.28)

etravirine 200 mg twice daily 400 mg twice daily 19 0.89 (0.68, 1.15) 0.90 (0.68, 1.18)

0.66 (0.34, 1.26)

omeprazole 20 mg daily 400 mg single dose 14

(10 for AUC) 4.15

(2.82, 6.10) 3.12

(2.13, 4.56) 1.46

(1.10, 1.93)

rifampin 600 mg daily 400 mg single dose 9 0.62 (0.37, 1.04) 0.60 (0.39, 0.91) 0.39

(0.30, 0.51)

rifampin 600 mg daily 400 mg twice daily when administered alone; 800 mg twice daily when administered with rifampin 14 1.62

(1.12, 2.33) 1.27

(0.94, 1.71) 0.47

(0.36, 0.61)

ritonavir 100 mg twice daily 400 mg single dose 10 0.76 (0.55, 1.04) 0.84 (0.70, 1.01)

0.99 (0.70, 1.40)

tenofovir 300 mg daily 400 mg twice daily 9 1.64 (1.16, 2.32) 1.49 (1.15, 1.94) 1.03

(0.73, 1.45)

tipranavir/ritonavir 500 mg/200 mg twice daily 400 mg twice daily 15

(14 for C_{min}) 0.82 (0.46, 1.46) 0.76 (0.49, 1.19) 0.45 (0.31, 0.66)

12.4 Microbiology

Mechanism of Action

Raltegravir inhibits the catalytic activity of HIV-1 integrase, an HIV-1 encoded enzyme that is required for viral replication. Inhibition of integrase prevents the covalent insertion, or integration, of unintegrated linear HIV-1 DNA into the host cell genome preventing the formation of the HIV-1 provirus. The provirus is required to direct the production of progeny virus, so inhibiting integration prevents propagation of the viral infection. Raltegravir did not significantly inhibit human phosphoryltransferases including DNA polymerases α , β , and γ .

Antiviral Activity in Cell Culture

Raltegravir at concentrations of 31 ± 20 nM resulted in 95% inhibition (EC₉₅) of viral

spread (relative to an untreated virus-infected culture) in human T-lymphoid cell cultures infected with the cell-line adapted HIV-1 variant H9IIIB. In addition, 5 clinical isolates of HIV-1 subtype B had EC95 values ranging from 9 to 19 nM in cultures of mitogen-activated human peripheral blood mononuclear cells. In a single-cycle infection assay, raltegravir inhibited infection of 23 HIV-1 isolates representing 5 non-B subtypes (A, C, D, F, and G) and 5 circulating recombinant forms (AE, AG, BF, BG, and cpx) with EC50 values ranging from 5 to 12 nM. Raltegravir also inhibited replication of an HIV-2 isolate when tested in CEMx174 cells (EC95 value = 6 nM). Additive to synergistic antiretroviral activity was observed when human T-lymphoid cells infected with the H9IIIB variant of HIV-1 were incubated with raltegravir in combination with non-nucleoside reverse transcriptase inhibitors (delavirdine, efavirenz, or nevirapine); nucleoside analog reverse transcriptase inhibitors (abacavir, didanosine, lamivudine, stavudine, tenofovir, or zidovudine); protease inhibitors (amprenavir, atazanavir, indinavir, lopinavir, nelfinavir, ritonavir, or saquinavir); or the entry inhibitor enfuvirtide.

Resistance

The mutations observed in the HIV-1 integrase coding sequence that contributed to raltegravir resistance (evolved either in cell culture or in subjects treated with raltegravir) generally included an amino acid substitution at either Y143 (changed to C, H, or R) or Q148 (changed to H, K, or R) or N155 (changed to H) plus one or more additional substitutions (i.e., L74M, E92Q, Q95K/R, T97A, E138A/K, G140A/S, V151I, G163R, H183P, Y226C/D/F/H, S230R, and D232N). E92Q and F121C are occasionally seen in the absence of substitutions at Y143, Q148, or N155 in raltegravir-treatment failure subjects.

Treatment-Naïve Adult Subjects: By Week 240 in the STARTMRK trial, the primary raltegravir resistance-associated substitutions were observed in 4 (2 with Y143H/R and 2 with Q148H/R) of the 12 virologic failure subjects with evaluable genotypic data from paired baseline and raltegravir treatment-failure isolates.

Treatment-Experienced Adult Subjects: By Week 96 in the BENCHMRK trials, at least one of the primary raltegravir resistance-associated substitutions, Y143C/H/R, Q148H/K/R, and N155H, was observed in 76 of the 112 virologic failure subjects with evaluable genotypic data from paired baseline and raltegravir treatment-failure isolates. The emergence of the primary raltegravir resistance-associated substitutions was observed cumulatively in 70 subjects by Week 48 and 78 subjects by Week 96, 15.2% and 17% of the raltegravir recipients, respectively. Some (n=58) of those HIV-1 isolates harboring one or more of the primary raltegravir resistance-associated substitutions were evaluated for raltegravir susceptibility yielding a median decrease of 26.3-fold (mean 48.9 ± 44.8 -fold decrease, ranging from 0.8- to 159-fold) compared to the wild-type reference.

Cross Resistance

Cross resistance has been observed among HIV-1 integrase strand transfer inhibitors (INSTIs). Amino acid substitutions in HIV-1 integrase conferring resistance to raltegravir generally also confer resistance to elvitegravir. Substitutions at amino acid Y143 confer greater reductions in susceptibility to raltegravir than to elvitegravir, and the E92Q substitution confers greater reductions in susceptibility to elvitegravir than to raltegravir. Viruses harboring a substitution at amino acid Q148, along with one or more other raltegravir resistance substitutions, may also have clinically significant resistance to dolutegravir.

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenicity studies of raltegravir in mice did not show any carcinogenic potential. At the highest dose levels, 400 mg/kg/day in females and 250 mg/kg/day in males, systemic exposure was 1.8-fold (females) or 1.2-fold (males) greater than the AUC (54 $\mu\text{M}\cdot\text{hr}$) at the 400-mg twice daily human dose. Treatment-related squamous cell carcinoma of nose/nasopharynx was observed in female rats dosed with 600 mg/kg/day raltegravir for 104 weeks. These tumors were possibly the result of local irritation and inflammation due to local deposition and/or aspiration of drug in the mucosa of the nose/nasopharynx during dosing. No tumors of the nose/nasopharynx were observed in rats dosed with 150 mg/kg/day (males) and 50 mg/kg/day (females) and the systemic exposure in rats was 1.7-fold (males) to 1.4-fold (females) greater than the AUC (54 $\mu\text{M}\cdot\text{hr}$) at the 400-mg twice daily human dose.

No evidence of mutagenicity or genotoxicity was observed in in vitro microbial mutagenesis (Ames) tests, in vitro alkaline elution assays for DNA breakage, and in vitro and in vivo chromosomal aberration studies.

No effect on fertility was seen in male and female rats at doses up to 600 mg/kg/day which resulted in a 3-fold exposure above the exposure at the recommended human dose.

Description of Clinical Studies

The evidence of durable efficacy of ISENTRESS is based on the analyses of 240-week data from a randomized, double-blind, active-control trial, STARTMRK (Protocol 021) in antiretroviral treatment-naïve HIV-1 infected adult subjects and 96-week data from 2 randomized, double-blind, placebo-controlled studies, BENCHMRK 1 and BENCHMRK 2 (Protocols 018 and 019), in antiretroviral treatment-experienced HIV-1 infected adult subjects.

14.1 Treatment-Naïve Adult Subjects

STARTMRK (Protocol 021) is a Phase 3 study to evaluate the safety and antiretroviral activity of ISENTRESS 400 mg twice daily + emtricitabine (+) tenofovir versus efavirenz 600 mg at bedtime plus emtricitabine (+) tenofovir in treatment-naïve HIV-1-infected subjects with HIV-1 RNA >5000 copies/mL. Randomization was stratified by screening HIV-1 RNA level ($\leq 50,000$ copies/mL; and >50,000 copies/mL) and by hepatitis status.

Table 11 shows the demographic characteristics of subjects in the group receiving ISENTRESS 400 mg twice daily and subjects in the comparator group.

Table 11: Baseline Characteristics

Randomized Study ISENTRESS Efavirenz

Protocol 021 400 mg Twice Daily 600 mg At Bedtime

(N = 281) (N = 282)

Notes:

ISENTRESS and Efavirenz were administered with emtricitabine (+) tenofovir

N = Number of subjects in each group.

* Includes additional subjects identified as having a history of AIDS. † Non-Clade B Subtypes (# of subjects): Clade A (4), A/C (1), A/G (2), A1 (1), AE (29), AG (12), BF (6), C (37), D (2), F (2), F1 (5), G (2), Complex (3). ‡ Evidence of hepatitis B surface antigen or evidence of HCV RNA by polymerase chain reaction (PCR) quantitative test for hepatitis C Virus.

Gender

Male 81% 82%
 Female 19% 18%
 Race
 White 41% 44%
 Black 12% 8%
 Asian 13% 11%
 Hispanic 21% 24%
 Native American <1% <1%
 Multiracial 12% 13%
 Region
 Latin America 35% 34%
 Southeast Asia 12% 10%
 North America 29% 32%
 EU/Australia 23% 23%
 Age (years)
 18-64 99% 99%
 ≥65 1% 1%
 Mean (SD) 38 (9) 37 (10)
 Median (min, max) 37 (19 to 67) 36 (19 to 71)
 CD4+ Cell Count (cells/microL)
 Mean (SD) 219 (124) 217 (134)
 Median (min, max) 212 (1 to 620) 204 (4 to 807)
 Plasma HIV-1 RNA (log10 copies/mL)
 Mean (SD) 5 (1) 5 (1)
 Median (min, max) 5 (3 to 6) 5 (4 to 6)
 Plasma HIV-1 RNA (copies/mL)
 Geometric Mean 103205 106215
 Median (min, max) 114000 (400 to 750000) 104000 (4410 to 750000)
 History of AIDS*
 Yes 19% 21%
 Viral Subtype
 Clade B 78% 82%
 Non-Clade B† 21% 17%
 Baseline Plasma HIV-1 RNA
 ≤100,000 copies/mL 45% 49%
 >100,000 copies/mL 55% 51%
 Baseline CD4+ Cell Counts
 ≤50 cells/mm³ 10% 11%
 >50 cells/mm³ and ≤200 cells/mm³ 37% 37%
 >200 cells/mm³ 53% 51%
 Hepatitis Status
 Hepatitis B or C Positive‡ 6% 6%
 Week 240 outcomes from Protocol 021 are shown in Table 12.

Table 12: Virologic Outcomes of Randomized Treatment of Protocol 021 at 240 Weeks
ISENTRESS

400 mg
 Twice Daily
 (N = 281) Efavirenz
 600 mg
 At Bedtime

(N = 282) Difference

(ISENTRESS – Efavirenz) (CI)

* Includes subjects who discontinued prior to Week 240 for lack of efficacy or subjects who are ≥ 50 copies/mL in the 240-week window (+/-6-weeks). † Includes subjects who discontinued due to AE or Death at any time point from Day 1 through the Week 240 window if this resulted in no virologic data on treatment during Week 240 visit window. ‡ Other includes: withdrew consent, loss to follow-up, moved etc., if the viral load at the time of discontinuation was < 50 copies/mL.

Subjects with HIV-1 RNA less than 50 copies/mL 66% 60% 6.6%

(-1.4%, 14.5%)

Virologic Failure* 8% 15%

No virologic data at Week 240

Window

Reasons

Discontinued study due to AE or death† 5% 10%

Discontinued study for other reasons‡

15% 14%

Missing data during window but on study 6% 2%

The mean changes in CD4 count from baseline were 295 cells/mm³ in the group receiving ISENTRESS 400 mg twice daily and 236 cells/mm³ in the group receiving Efavirenz 600 mg at bedtime.

14.2 Treatment-Experienced Adult Subjects

BENCHMRK 1 and BENCHMRK 2 are Phase 3 studies to evaluate the safety and antiretroviral activity of ISENTRESS 400 mg twice daily in combination with an optimized background therapy (OBT), versus OBT alone, in HIV-1-infected subjects, 16 years or older, with documented resistance to at least 1 drug in each of 3 classes (NNRTIs, NRTIs, PIs) of antiretroviral therapies. Randomization was stratified by degree of resistance to PI (1PI vs. >1PI) and the use of enfuvirtide in the OBT. Prior to randomization, OBT was selected by the investigator based on genotypic/phenotypic resistance testing and prior ART history.

Table 13 shows the demographic characteristics of subjects in the group receiving ISENTRESS 400 mg twice daily and subjects in the placebo group.

Table 13: Baseline Characteristics

Randomized Studies

Protocol 018 and 019 ISENTRESS 400 mg Twice Daily + OBT Placebo + OBT

(N = 462) (N = 237)

* Hepatitis B virus surface antigen positive or hepatitis C virus antibody positive.

Gender

Male 88% 89%

Female 12% 11%

Race

White 65% 73%

Black 14% 11%

Asian 3% 3%

Hispanic 11% 8%

Others 6% 5%

Age (years)

Median (min, max) 45 (16 to 74) 45 (17 to 70)

CD4+ Cell Count

Median (min, max), cells/mm³ 119 (1 to 792) 123 (0 to 759)

≤50 cells/mm³ 32% 33%

>50 and ≤200 cells/mm³ 37% 36%

Plasma HIV-1 RNA

Median (min, max), log₁₀ copies/mL 4.8 (2 to 6) 4.7 (2 to 6)

>100,000 copies/mL 36% 33%

History of AIDS

Yes 92% 91%

Prior Use of ART, Median (1st Quartile, 3rd Quartile)

Years of ART Use 10 (7 to 12) 10 (8 to 12)

Number of ART 12 (9 to 15) 12 (9 to 14)

Hepatitis Co-infection*

No Hepatitis B or C virus 83% 84%

Hepatitis B virus only 8% 3%

Hepatitis C virus only 8% 12%

Co-infection of Hepatitis B and C virus 1% 1%

Stratum

Enfuvirtide in OBT 38% 38%

Resistant to ≥2 PI 97% 95%

Table 14 compares the characteristics of optimized background therapy at baseline in the group receiving ISENTRESS 400 mg twice daily and subjects in the control group.

Table 14: Characteristics of Optimized Background Therapy at Baseline

Randomized Studies

Protocol 018 and 019 ISENTRESS 400 mg Twice Daily + OBT Placebo + OBT
(N = 462) (N = 237)

* Darunavir use in OBT in darunavir-naïve subjects was counted as one active PI. † The Phenotypic Sensitivity Score (PSS) and the Genotypic Sensitivity Score (GSS) were defined as the total oral ARTs in OBT to which a subject's viral isolate showed phenotypic sensitivity and genotypic sensitivity, respectively, based upon phenotypic and genotypic resistance tests. Enfuvirtide use in OBT in enfuvirtide-naïve subjects was counted as one active drug in OBT in the GSS and PSS. Similarly, darunavir use in OBT in darunavir-naïve subjects was counted as one active drug in OBT.

Number of ARTs in OBT

Median (min, max) 4 (1 to 7) 4 (2 to 7)

Number of Active PI in OBT by Phenotypic Resistance Test*

0 36% 41%

1 or more 60% 58%

Phenotypic Sensitivity Score (PSS)†

0 15% 18%

1 31% 30%

2 31% 28%

3 or more 18% 20%

Genotypic Sensitivity Score (GSS)†

0 25% 27%

1 38% 40%

2 24% 21%

3 or more 11% 10%

Week 96 outcomes for the 699 subjects randomized and treated with the recommended dose of ISENTRESS 400 mg twice daily or placebo in the pooled

BENCHMRK 1 and 2 studies are shown in Table 15.

Table 15: Virologic Outcomes of Randomized Treatment of Protocols 018 and 019 at 96 Weeks (Pooled Analysis)

ISENTRESS

400 mg Twice Daily + OBT

(N = 462) Placebo + OBT

(N = 237)

* Includes subjects who switched to open-label raltegravir after Week 16 due to the protocol-defined virologic failure, subjects who discontinued prior to Week 96 for lack of efficacy, subjects changed OBT due to lack of efficacy prior to Week 96, or subjects who were ≥ 50 copies in the 96 week window. † Includes subjects who discontinued due to AE or Death at any time point from Day 1 through the Week 96 window if this resulted in no virologic data on treatment during the Week 96 window. ‡ Other includes: withdrew consent, loss to follow-up, moved etc., if the viral load at the time of discontinuation was < 50 copies/mL.

Subjects with HIV-1 RNA less than 50 copies/mL 55% 27%

Virologic Failure* 35% 66%

No virologic data at Week 96 Window

Reasons

Discontinued study due to AE or death† 3% 3%

Discontinued study for other reasons‡ 4% 4%

Missing data during window but on study 4% $< 1\%$

The mean changes in CD4 count from baseline were 118 cells/mm³ in the group receiving ISENTRESS 400 mg twice daily and 47 cells/mm³ for the control group.

Treatment-emergent CDC Category C events occurred in 4% of the group receiving ISENTRESS 400 mg twice daily and 5% of the control group.

Virologic responses at Week 96 by baseline genotypic and phenotypic sensitivity score are shown in Table 16.

Table 16: Virologic Response at 96 Week Window by Baseline Genotypic/Phenotypic Sensitivity Score

Percent with HIV-1 RNA

< 50 copies/mL

At Week 96

n ISENTRESS

400 mg

Twice Daily + OBT

(N = 462)

n Placebo + OBT

(N = 237)

* The Phenotypic Sensitivity Score (PSS) and the Genotypic Sensitivity Score (GSS) were defined as the total oral ARTs in OBT to which a subject's viral isolate showed phenotypic sensitivity and genotypic sensitivity, respectively, based upon phenotypic and genotypic resistance tests. Enfuvirtide use in OBT in enfuvirtide-naïve subjects was counted as one active drug in OBT in the GSS and PSS. Similarly, darunavir use in OBT in darunavir-naïve subjects was counted as one active drug in OBT.

Phenotypic Sensitivity Score (PSS)*

0 67 43 43 5

1 144 58 71 23

2 142 61 66 32

3 or more 85 48 48 42

Genotypic Sensitivity Score (GSS)*

0 116 39 65 5

1 177 62 95 26

2 111 61 49 53

3 or more 51 49 23 35

Switch of Suppressed Subjects from Lopinavir (+) Ritonavir to Raltegravir

The SWITCHMRK 1 & 2 Phase 3 studies evaluated HIV-1 infected subjects receiving suppressive therapy (HIV-1 RNA <50 copies/mL on a stable regimen of lopinavir 200 mg (+) ritonavir 50 mg 2 tablets twice daily plus at least 2 nucleoside reverse transcriptase inhibitors for >3 months) and randomized them 1:1 to either continue lopinavir (+) ritonavir (n=174 and n=178, SWITCHMRK 1 & 2, respectively) or replace lopinavir (+) ritonavir with ISENTRESS 400 mg twice daily (n=174 and n=176, respectively). The primary virology endpoint was the proportion of subjects with HIV-1 RNA less than 50 copies/mL at Week 24 with a prespecified non-inferiority margin of -12% for each study; and the frequency of adverse events up to 24 weeks.

Subjects with a prior history of virological failure were not excluded and the number of previous antiretroviral therapies was not limited.

These studies were terminated after the primary efficacy analysis at Week 24 because they each failed to demonstrate non-inferiority of switching to ISENTRESS versus continuing on lopinavir (+) ritonavir. In the combined analysis of these studies at Week 24, suppression of HIV-1 RNA to less than 50 copies/mL was maintained in 82.3% of the ISENTRESS group versus 90.3% of the lopinavir (+) ritonavir group. Clinical and laboratory adverse events occurred at similar frequencies in the treatment groups.

14.3 Pediatric Subjects

2 to 18 Years of Age

IMPAACT P1066 is a Phase I/II open label multicenter trial to evaluate the pharmacokinetic profile, safety, tolerability, and efficacy of raltegravir in HIV infected children. This study enrolled 126 treatment experienced children and adolescents 2 to 18 years of age. Subjects were stratified by age, enrolling adolescents first and then successively younger children. Subjects were enrolled into cohorts according to age and received the following formulations: Cohort I (12 to less than 18 years old), 400 mg film-coated tablet; Cohort IIa (6 to less than 12 years old), 400 mg film-coated tablet; Cohort IIb (6 to less than 12 years old), chewable tablet; Cohort III (2 to less than 6 years), chewable tablet. Raltegravir was administered with an optimized background regimen.

The initial dose finding stage included intensive pharmacokinetic evaluation. Dose selection was based upon achieving similar raltegravir plasma exposure and trough concentration as seen in adults, and acceptable short term safety. After dose selection, additional subjects were enrolled for evaluation of long term safety, tolerability and efficacy. Of the 126 subjects, 96 received the recommended dose of ISENTRESS [see DOSAGE AND ADMINISTRATION (2.3)].

These 96 subjects had a median age of 13 (range 2 to 18) years, were 51% Female, 34% Caucasian, and 59% Black. At baseline, mean plasma HIV-1 RNA was 4.3 log₁₀ copies/mL, median CD4 cell count was 481 cells/mm³ (range: 0 - 2361) and median CD4% was 23.3% (range: 0 - 44). Overall, 8% had baseline plasma HIV-1 RNA >100,000

copies/mL and 59% had a CDC HIV clinical classification of category B or C. Most subjects had previously used at least one NNRTI (78%) or one PI (83%).

Ninety-three (97%) subjects 2 to 18 years of age completed 24 weeks of treatment (3 discontinued due to non-compliance). At Week 24, 54% achieved HIV RNA <50 copies/mL; 66% achieved HIV RNA <400 copies/mL. The mean CD4 count (percent) increase from baseline to Week 24 was 119 cells/mm³ (3.8%).

4 Weeks to Less Than 2 Years of Age

IMPAACT P1066 also enrolled HIV-infected, infants and toddlers 4 weeks to less than 2 years of age (Cohorts IV and V) who had received prior antiretroviral therapy either as prophylaxis for prevention of mother-to-child transmission (PMTCT) and/or as combination antiretroviral therapy for treatment of HIV infection. Raltegravir was administered as an oral suspension without regard to food in combination with an optimized background regimen.

The 26 subjects had a median age of 28 weeks (range: 4 -100), were 35% female, 85% Black and 8% Caucasian. At baseline, mean plasma HIV-1 RNA was 5.7 log₁₀ copies/mL (range: 3.1 - 7), median CD4 cell count was 1400 cells/mm³ (range: 131 - 3648) and median CD4% was 18.6% (range: 3.3 - 39.3). Overall, 69% had baseline plasma HIV-1 RNA exceeding 100,000 copies/mL and 23% had a CDC HIV clinical classification of category B or C. None of the 26 patients were completely treatment naïve. All infants under 6 months of age had received nevirapine or zidovudine for prevention of mother-to-infant transmission, and 43% of patients greater than 6 months of age had received two or more antiretrovirals.

Of the 26 treated subjects, 23 subjects were included in the Week 24 and 48 efficacy analyses, respectively. All 26 treated subjects were included for safety analyses.

At Week 24, 39% achieved HIV RNA <50 copies/mL and 61% achieved HIV RNA <400 copies/mL. The mean CD4 count (percent) increase from baseline to Week 24 was 500 cells/mm³ (7.5%).

At Week 48, 44% achieved HIV RNA <50 copies/mL and 61% achieved HIV RNA <400 copies/mL. The mean CD4 count (percent) increase from baseline to Week 48 was 492 cells/mm³ (7.8%).

ISENTRESS tablets 400 mg are pink, oval-shaped, film-coated tablets with "227" on one side. They are supplied as follows:

NDC 0006-0227-61 unit-of-use bottles of 60.

No. 3894

ISENTRESS tablets 100 mg are pale orange, oval-shaped, orange-banana flavored, chewable tablets scored on both sides and imprinted on one face with the Merck logo and "477" on opposite sides of the score. They are supplied as follows:

NDC 0006-0477-61 unit-of-use bottles of 60.

No. 3972

ISENTRESS tablets 25 mg are pale yellow, round, orange-banana flavored, chewable tablets with the Merck logo on one side and "473" on the other side. They are supplied

as follows:

NDC 0006-0473-61 unit-of-use bottles of 60.

No. 3965

ISENTRESS for oral suspension 100 mg is a white to off-white granular powder that may contain yellow or beige to tan particles, in child resistant single-use foil packets, packaged as a kit with two 5 mL dosing syringes and two mixing cups. It is supplied as follows:

NDC 0006-3603-60 unit of use carton with 60 packets.

NDC 0006-3603-01 individual packet.

No. 3603

Storage and Handling

400 mg Film-coated Tablets, Chewable Tablets and For Oral Suspension

Store at 20-25°C (68-77°F); excursions permitted to 15-30°C (59-86°F). See USP Controlled Room Temperature.

Chewable Tablets

Store in the original package with the bottle tightly closed. Keep the desiccant in the bottle to protect from moisture.

For Oral Suspension

Store in the original container. Do not open foil packet until ready for use.

Advise patients to read the FDA-approved patient labeling (Patient Information and Instructions for Use).

General Information

Instruct patients to reread patient labeling each time the prescription is renewed.

Patients should remain under the care of a physician when using ISENTRESS. Instruct patients to inform their physician or pharmacist if they develop any unusual symptom, or if any known symptom persists or worsens.

ISENTRESS is not a cure for HIV-1 infection and patients may continue to experience illnesses associated with HIV-1 infection such as opportunistic infections. Tell patients that sustained decreases in plasma HIV RNA have been associated with a reduced risk of progression to AIDS and death. Patients should remain on continuous HIV therapy to control HIV infection and decrease HIV-related illnesses.

Advise patients to avoid doing things that can spread HIV-1 infection to others.

Do not share needles or other injection equipment.

Do not share personal items that can have blood or body fluids on them, like toothbrushes and razor blades.

Do not have any kind of sex without protection. Always practice safe sex by using a latex or polyurethane condom to lower the chance of sexual contact with semen, vaginal

secretions, or blood.

Do not breastfeed. Mothers with HIV-1 should not breastfeed because HIV-1 can be passed to the baby in the breast milk. Also, it is unknown if ISENTRESS can be passed to the baby through breast milk and whether it could harm the baby.

General Dosing Instructions

Instruct patients that if they miss a dose of ISENTRESS, they should take it as soon as they remember. If they do not remember until it is time for the next dose, instruct them to skip the missed dose and go back to the regular schedule. Instruct patients not to double their next dose or take more than the prescribed dose.

Film-Coated Tablets and Chewable Tablets

Inform patients that the chewable tablet forms can be chewed or swallowed whole, but the film-coated tablets must be swallowed whole.

For Oral Suspension

Instruct parents and/or caregivers to read the Instructions for Use before preparing and administering ISENTRESS for oral suspension to pediatric patients. Instruct parents and/or caregivers that ISENTRESS for oral suspension should be administered within 30 minutes of mixing.

Severe and Potentially Life-threatening Rash

Inform patients that severe and potentially life-threatening rash has been reported. Advise patients to immediately contact their healthcare provider if they develop rash. Instruct patients to immediately stop taking ISENTRESS and other suspect agents, and seek medical attention if they develop a rash associated with any of the following symptoms as it may be a sign of a more serious reaction such as Stevens-Johnson syndrome, toxic epidermal necrolysis or severe hypersensitivity: fever, generally ill feeling, extreme tiredness, muscle or joint aches, blisters, oral lesions, eye inflammation, facial swelling, swelling of the eyes, lips, mouth, breathing difficulty, and/or signs and symptoms of liver problems (e.g., yellowing of the skin or whites of the eyes, dark or tea colored urine, pale colored stools/bowel movements, nausea, vomiting, loss of appetite, or pain, aching or sensitivity on the right side below the ribs). Inform patients that if severe rash occurs, their physician will closely monitor them, order laboratory tests and initiate appropriate therapy.

Rhabdomyolysis

Before patients begin ISENTRESS, ask them if they have a history of rhabdomyolysis, myopathy or increased creatine kinase or if they are taking medications known to cause these conditions such as statins, fenofibrate, gemfibrozil or zidovudine.

Instruct patients to immediately report to their healthcare provider any unexplained muscle pain, tenderness, or weakness while taking ISENTRESS.

Phenylketonuria

Alert patients with phenylketonuria that ISENTRESS Chewable Tablets contain phenylalanine [see WARNINGS AND PRECAUTIONS (5.3)].

Drug Interactions

Instruct patients to avoid taking aluminum and/or magnesium containing antacids during treatment with ISENTRESS [see DRUG INTERACTIONS (7.2)].

ISENTRESS® (eye sen tris)
(raltegravir)
film-coated tablets
ISENTRESS® (eye sen tris)
(raltegravir)
chewable tablets
ISENTRESS® (eye sen tris)
(raltegravir)
for oral suspension

Read this Patient Information before you start taking ISENTRESS and each time you get a refill. There may be new information. This information does not take the place of talking with your doctor about your medical condition or your treatment.

What is ISENTRESS?

ISENTRESS is a prescription HIV medicine used with other antiretroviral medicines to treat Human Immunodeficiency Virus-1 (HIV-1) infection in people 4 weeks of age and older. HIV is the virus that causes AIDS (Acquired Immune Deficiency Syndrome).

It is not known if ISENTRESS is safe and effective in babies under 4 weeks of age.

When used with other HIV medicines to treat HIV-1 infection, ISENTRESS may help:

reduce the amount of HIV in your blood. This is called "viral load".

increase the number of white blood cells called CD4+ (T) cells in your blood, which help fight off other infections.

reduce the amount of HIV-1 and increase the CD4+ (T) cells in your blood, which may help improve your immune system. This may reduce your risk of death or getting infections that can happen when your immune system is weak (opportunistic infections). ISENTRESS does not cure HIV-1 infection or AIDS.

You must stay on continuous HIV therapy to control HIV-1 infection and decrease HIV-related illnesses.

Avoid doing things that can spread HIV-1 infection to others.

Do not share or re-use needles or other injection equipment.

Do not share personal items that can have blood or body fluids on them, like toothbrushes and razor blades.

Do not have any kind of sex without protection. Always practice safe sex by using a latex or polyurethane condom to lower the chance of sexual contact with any body fluids such as semen, vaginal secretions, or blood.

Ask your doctor if you have any questions on how to prevent passing HIV to other people.

What should I tell my doctor before taking ISENTRESS?

Before you take ISENTRESS, tell your doctor if you:

have liver problems

have a history of a muscle disorder called rhabdomyolysis or myopathy

have increased levels of creatine kinase in your blood

have phenylketonuria (PKU). ISENTRESS chewable tablets contain phenylalanine as part of the artificial sweetener, aspartame. The artificial sweetener may be harmful to people

with PKU.

have any other medical conditions

are pregnant or plan to become pregnant. It is not known if ISENTRESS can harm your unborn baby.

Pregnancy Registry: There is a pregnancy registry for women who take antiviral medicines during pregnancy. The purpose of this registry is to collect information about the health of you and your baby. Talk to your doctor about how you can take part in this registry.

are breastfeeding or plan to breastfeed. Do not breastfeed if you take ISENTRESS.

You should not breastfeed if you have HIV-1 because of the risk of passing HIV-1 to your baby.

Talk with your doctor about the best way to feed your baby.

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

You can ask your doctor or pharmacist for a list of medicines that interact with ISENTRESS.

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

How should I take ISENTRESS?

Take ISENTRESS exactly as prescribed by your doctor.

Do not change your dose of ISENTRESS or stop your treatment without talking with your doctor first.

Stay under the care of your doctor while taking ISENTRESS.

ISENTRESS film-coated tablets must be swallowed whole.

ISENTRESS chewable tablets may be chewed or swallowed whole.

ISENTRESS for oral suspension should be given to your child within 30 minutes of mixing. See the detailed INSTRUCTIONS FOR USE that comes with ISENTRESS for oral suspension, for information about the correct way to mix and give a dose of ISENTRESS for oral suspension. If you have questions about how to mix or give ISENTRESS for oral suspension, talk to your doctor or pharmacist.

Do not switch between the film-coated tablet, the chewable tablet, or the oral suspension without talking with your doctor first.

Do not run out of ISENTRESS. Get a refill of your ISENTRESS from your doctor or pharmacy before you run out.

If you miss a dose, take it as soon as you remember. If you do not remember until it is time for your next dose, skip the missed dose and go back to your regular schedule. Do not double your next dose or take more ISENTRESS than prescribed.

If you take too much ISENTRESS, call your doctor or go to the nearest hospital emergency room right away.

What are the possible side effects of ISENTRESS?

ISENTRESS can cause serious side effects including:

Serious skin reactions and allergic reactions. Some people who take ISENTRESS develop serious skin reactions and allergic reactions that can be severe, and may be life-threatening or lead to death. If you develop a rash with any of the following symptoms, stop using ISENTRESS and call your doctor right away:

fever

generally ill feeling

extreme tiredness
muscle or joint aches
blisters or sores in mouth
blisters or peeling of the skin
redness or swelling of the eyes
swelling of the mouth or face
problems breathing

Sometimes allergic reactions can affect body organs, such as your liver. Call your doctor right away if you have any of the following signs or symptoms of liver problems:

yellowing of your skin or whites of your eyes
dark or tea colored urine
pale colored stools (bowel movements)
nausea or vomiting
loss of appetite

pain, aching, or tenderness on the right side of your stomach area

Changes in your immune system (Immune Reconstitution Syndrome) can happen when you start taking HIV-1 medicines. Your immune system may get stronger and begin to fight infections that have been hidden in your body for a long time. Tell your doctor right away if you start having new symptoms after starting your HIV-1 medicine.

The most common side effects of ISENTRESS include:

trouble sleeping
headache
dizziness
nausea
tiredness

Less common side effects of ISENTRESS include:

depression
hepatitis
genital herpes
herpes zoster including shingles
kidney failure
kidney stones
indigestion or stomach area pain
vomiting
suicidal thoughts and actions
weakness

Tell your doctor right away if you get unexplained muscle pain, tenderness, or weakness while taking ISENTRESS. These may be signs of a rare serious muscle problem that can lead to kidney problems.

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

These are not all the possible side effects of ISENTRESS. For more information, ask your doctor or pharmacist.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

How should I store ISENTRESS?

Film-Coated Tablets:

Store ISENTRESS film-coated tablets at room temperature between 68°F to 77°F (20°C to 25°C).

Chewable Tablets:

Store ISENTRESS chewable tablets at room temperature between 68°F to 77°F (20°C to 25°C).

Store ISENTRESS chewable tablets in the original package with the bottle tightly closed. Keep the drying agent (desiccant) in the bottle to protect from moisture.

For Oral Suspension:

Store ISENTRESS for oral suspension at room temperature between 68°F to 77°F (20°C to 25°C).

Store in the original container. Do not open the foil packet until ready for use.

Keep ISENTRESS and all medicines out of the reach of children.

General information about ISENTRESS

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

You can ask your doctor or pharmacist for information about ISENTRESS that is written for health professionals.

For more information go to www.ISENTRESS.com or call 1-800-622-4477.

What are the ingredients in ISENTRESS?

ISENTRESS film-coated tablets:

Active ingredient: raltegravir

Inactive ingredients: calcium phosphate dibasic anhydrous, hypromellose 2208, lactose monohydrate, magnesium stearate, microcrystalline cellulose, poloxamer 407 (contains 0.01% butylated hydroxytoluene as antioxidant), sodium stearyl fumarate.

The film coating contains: black iron oxide, polyethylene glycol 3350, polyvinyl alcohol, red iron oxide, talc and titanium dioxide.

ISENTRESS chewable tablets:

Active ingredient: raltegravir

Inactive ingredients: ammonium hydroxide, crospovidone, ethylcellulose 20 cP, fructose, hydroxypropyl cellulose, hypromellose 2910/6cP, magnesium stearate, mannitol, medium chain triglycerides, monoammonium glycyrrhizinate, natural and artificial flavors (orange, banana, and masking that contains aspartame), oleic acid, PEG 400, saccharin sodium, sodium citrate dihydrate, sodium stearyl fumarate, sorbitol, sucralose and yellow iron oxide. The 100 mg chewable tablet also contains red iron oxide.

ISENTRESS for oral suspension:

Active ingredient: raltegravir

Inactive ingredients: ammonium hydroxide, banana with other natural flavors, carboxymethylcellulose sodium, crospovidone, ethylcellulose 20 cP, fructose,

hydroxypropyl cellulose, hypromellose 2910/6cP, macrogol/PEG 400, magnesium stearate, maltodextrin, mannitol, medium chain triglycerides, microcrystalline cellulose, monoammonium glycyrrhizinate, oleic acid, sorbitol, sucralose and sucrose.

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

ISENRESS 400mg
NDC 61919-706-04
Lot Exp Date 08/18
Mfg NDC 0006-0227-61

4 Tabs

ISENRESS 400mg
NDC 61919-706-04
Lot Exp Date 08/18
Mfg NDC 0006-0227-61

4 Tabs

ISENRESS 400mg
NDC 61919-706-04
Lot Exp Date 08/18
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4 Tabs

ISENRESS 400mg
NDC 61919-706-04
Lot Exp Date 08/18
Mfg NDC 0006-0227-61

4 Tabs

ISENRESS 400mg
NDC 61919-706-02
Lot Exp Date 11/19
Mfg NDC 0006-0227-61

2 Tabs

ISENRESS 400mg
NDC 61919-706-02
Lot Exp Date 11/19
Mfg NDC 0006-0227-61

2 Tabs

ISENRESS 400mg
NDC 61919-706-02
Lot Exp Date 11/19
Mfg NDC 0006-0227-61

2 Tabs

ISENRESS 400mg
NDC 61919-706-02
Lot Exp Date 11/19
Mfg NDC 0006-0227-61

2 Tabs

ISENRESS 400mg 4 Tabs

Generic For:
Each tablet contains 434.4mg raltegravir potassium,
equivalent to 400mg raltegravir

Discard After: 08/18

Alpharetta, GA 30005

Lot# Prod# 706-04

Packaged and Distributed By: **DIRECT B**

Diet By: Merck Sharp & Dohme Corp
Whitehouse Station, NJ 08889
NDC 0006-0227-61

Mfg Lot: 12/2/2016

ISENRESS 400mg 2 Tabs

Generic For:
Each tablet contains 434.4mg raltegravir potassium,
equivalent to 400mg raltegravir

Discard After: 11/19

Alpharetta, GA 30005

Lot# Prod# 706-02

Packaged and Distributed By: **DIRECT B**

Diet By: Merck Sharp & Dohme Corp
Whitehouse Station, NJ 08889
NDC 0006-0227-61

Mfg Lot: 12/5/2016

ISENRESS

400mg

6 Tabs

Generic For:
Each tablet contains 434.4mg raltegravir potassium,
equivalent to 400mg raltegravir

Discard After: 11/22/23
61919-706-06

Lot# 06JA2202
Prod# 706-06

Packaged and Distributed By: **DIRECT B**

Diet By: Merck Sharp & Dohme Corp
Whitehouse Station, NJ 08889
NDC 0006-0227-61

ISENRESS 400mg
NDC 61919-706-06 6 Tabs
Lot 06JA2202 Exp 11/22/23
Mfg NDC 0006-0227-61

ISENRESS 400mg
NDC 61919-706-06 6 Tabs
Lot 06JA2202 Exp 11/22/23
Mfg NDC 0006-0227-61

ISENRESS 400mg
NDC 61919-706-06 6 Tabs
Lot 06JA2202 Exp 11/22/23
Mfg NDC 0006-0227-61

ISENRESS 400mg
NDC 61919-706-06 6 Tabs
Lot 06JA2202 Exp 11/22/23
Mfg NDC 0006-0227-61

Mfg Lot: U028289
CD 1/3/2022 1366654

Mfg Lot: U028289
CD 1/3/2022 1366654

Mfg Lot: U028289
CD 1/3/2022 1366654

Mfg Lot: U028289
CD 1/3/2022 1366654

ISENTRESS

isentress tablet, film coated

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:61919-706(NDC:0006-0227)
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
RALTEGRAVIR POTASSIUM (UNII: 43Y000U234) (RALTEGRAVIR - UNII:22VKV8053U)	RALTEGRAVIR	400 mg

Inactive Ingredients

Ingredient Name	Strength
CALCIUM PHOSPHATE, DIBASIC, ANHYDROUS (UNII: L11K75P92J)	
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
POLYETHYLENE GLYCOL 3350 (UNII: G2M7P15E5P)	
FERRIC OXIDE RED (UNII: 1K09F3G675)	
TALC (UNII: 7SEV7J4R1U)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
FERROSO FERRIC OXIDE (UNII: XM0M87F357)	
BUTYLATED HYDROXYTOLUENE (UNII: 1P9D0Z171K)	
CELLULOSE, MICROCRYSTALLINE (UNII: OP1R32D61U)	
POLOXAMER 407 (UNII: TUF2IVW3M2)	
POLYVINYL ALCOHOL, UNSPECIFIED (UNII: 532B59J990)	
SODIUM STEARYL FUMARATE (UNII: 7CV7WJK4UI)	
HYPROMELLOSES (UNII: 3NXW29V3WO)	

Product Characteristics

Color	pink	Score	no score
Shape	OVAL	Size	16mm
Flavor		Imprint Code	227
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:61919-706-04	4 in 1 BOTTLE; Type 0: Not a Combination Product	12/21/2016	
2	NDC:61919-706-06	6 in 1 BOTTLE; Type 0: Not a Combination Product	12/21/2016	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA022145	12/21/2016	

Labeler - DIRECT RX (079254320)

Registrant - DIRECT RX (079254320)

Establishment

Name	Address	ID/FEI	Business Operations
DIRECT RX		079254320	repack(61919-706)

Revised: 1/2022

DIRECT RX