

SUMMARY OF PRODUCT CHARACTERISTICS

HIGHLIGHTS OF PRESCRIBING INFORMATION

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

Prifitin (rifapentine) Tablets

Initial U.S. Approval: 1998

INDICATIONS AND USAGE

- PRIFITIN is a rifamycin antimycobacterial drug indicated in patients 12 years of age and older for the treatment of active pulmonary tuberculosis (TB) caused by *Mycobacterium tuberculosis* in combination with one or more antituberculous (anti-TB) drugs to which the isolate is susceptible. [1,1]
- PRIFITIN is indicated for the treatment of latent tuberculosis infection (LTBI) caused by *M. tuberculosis* in combination with isoniazid in patients 2 years of age and older at high risk of progression to TB disease. [1,2]
- See Limitations of Use. [1.1, 1.2]

DO dosage AND ADMINISTRATION

- Active pulmonary tuberculosis:** PRIFITIN should be used in regimens consisting of an initial 2 month phase followed by a 4 month continuation phase. [2,1]
- Initial phase (2 Months):** 600 mg twice weekly for two months as directly observed therapy (DOT), with no less than 72 hours between doses, in combination with other antituberculosis drugs. [2,1]
- Continuation phase (4 Months):** 600 mg once weekly for 4 months as directly observed therapy with isoniazid or another appropriate antituberculosis agent. [2,1]
- Latent tuberculosis infection:** PRIFITIN should be administered in combination with isoniazid once weekly for 12 weeks as directly observed therapy. Adults and children 12 years and older: PRIFITIN (based on weight, see table below) and isoniazid 15 mg/kg (900 mg maximum) Children 2-11 years: PRIFITIN (based on weight, see table below) and isoniazid 25 mg/kg (900 mg maximum)

Weight range	PRIFITIN dose	Number of PRIFITIN tablets
10-14 kg	300 mg	2
14.1-25 kg	450 mg	3
25.1-32 kg	600 mg	4
32.1-50 kg	750 mg	5
>50 kg	900 mg	6

For Latent Tuberculosis Infection, the maximum recommended dose of PRIFITIN is 900 mg once weekly for 12 weeks.

- Take with food. Tablets may be crushed and added to semi-solid food. [2,3]

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

1.1 Active Pulmonary Tuberculosis

PRIFITIN® (rifapentine) is indicated in adults and children 12 years and older for the treatment of active pulmonary tuberculosis (TB) caused by *Mycobacterium tuberculosis*. PRIFITIN must always be used in combination with one or more antituberculosis (anti-TB) drugs to which the isolate is susceptible [see *Dosage and Administration* (2.1) and *Clinical Studies* (14.1)].

Limitations of Use

Do not use PRIFITIN monotherapy in either the initial or the continuation phases of active antitubercular treatment. PRIFITIN should not be used once weekly in the continuation phase regimen in combination with isoniazid (INH) in HIV-infected patients with active pulmonary tuberculosis because of a higher rate of failure and/or relapse with rifampin (RIF)-resistant organisms [see *Warnings and Precautions* (5.3) and *Clinical Studies* (14.1)].

PRIFITIN has not been studied as part of the initial phase treatment regimen in HIV-infected patients with active pulmonary tuberculosis.

1.2 Latent Tuberculosis Infection

PRIFITIN is indicated in adults and children 2 years and older for the treatment of latent tuberculosis infection caused by *Mycobacterium tuberculosis* in patients at high risk of progression to tuberculosis disease (including those in close contact with active tuberculosis patients, recent conversion to a positive tuberculin skin test, HIV-infected patients, or those with pulmonary fibrosis on radiograph) [see *Clinical Studies* (14.2)].

Limitations of Use

Active tuberculosis disease should be ruled out before initiating treatment for latent tuberculosis infection. PRIFITIN must always be used in combination with isoniazid as a 12-week once-weekly regimen for the treatment of latent tuberculosis infection [see *Dosage and Administration* (2.2) and *Clinical Studies* (14.2)].

* PRIFITIN in combination with isoniazid is not recommended for individuals presumed to be exposed to rifamycin-resistant or isoniazid-resistant *M. tuberculosis*.

2 DOSAGE AND ADMINISTRATION

2.1 Dosage in Active Pulmonary Tuberculosis

PRIFITIN is only recommended for the treatment of active pulmonary tuberculosis caused by drug-susceptible organisms as part of regimens consisting of a 2-month initial phase followed by a 4-month continuation phase.

PRIFITIN should not be used in the treatment of active pulmonary tuberculosis caused by rifampin-resistant strains.

Initial phase (2 Months): PRIFITIN should be administered at a dose of 600 mg twice weekly for two months as directly observed therapy (DOT), with an interval of no less than 3 consecutive days (72 hours) between doses, in combination with other antituberculosis drugs as part of an appropriate regimen which includes daily companion drugs such as isoniazid (INH), ethambutol (EMB) and pyrazinamide (PZA).

Continuation phase (4 Months): Following the initial phase (2 months), continuation phase (4 months) treatment consists of PRIFITIN 600 mg once weekly for 4 months in combination with isoniazid or another appropriate antituberculosis agent for susceptible organisms administered as directly observed therapy.

2.2 Dosage in Latent Tuberculosis Infection

PRIFITIN should be administered once weekly in combination with isoniazid for 12 weeks as directly observed therapy.

Adults and children 12 years and older: The recommended dose of PRIFITIN should be determined based on weight of the patient up to a maximum of 900 mg once weekly (see Table 1). The recommended dose of isoniazid is 15 mg/kg (rounded to the nearest 50 mg or 100 mg) up to a maximum of 900 mg once weekly for 12 weeks.

Children 2-11 years: The recommended dose of PRIFITIN should be determined based on weight of the patient up to a maximum of 900 mg once weekly (see Table 1). The recommended dose of isoniazid is 25 mg/kg (rounded to the nearest 50 mg or 100 mg) up to a maximum of 900 mg once weekly for 12 weeks.

Table 1: Weight Based Dose of PRIFITIN in the Treatment of Latent Tuberculosis Infection

Weight range	PRIFITIN dose	Number of PRIFITIN tablets
10-14 kg	300 mg	2
14.1-25 kg	450 mg	3
25.1-32 kg	600 mg	4
32.1-50 kg	750 mg	5
>50 kg	900 mg	6

2.3 Administration

Take PRIFITIN with meals. Administration of PRIFITIN with a meal increases oral bioavailability and may reduce the incidence of gastrointestinal upset, nausea, and/or vomiting [see *Clinical Pharmacology* (12.3)].

For patients who cannot swallow tablets, the tablets may be crushed and added to a small amount of semi-solid food, all of which should be consumed immediately [see *Clinical Studies* (12.3)].

3 DOSAGE FORMS AND STRENGTHS

PRIFITIN is supplied as 150 mg round normal convex dark-pink film-coated tablets debossed "F" on one side of tablet.

4 CONTRAINDICATIONS

4.1 Hypersensitivity

PRIFITIN is contraindicated in patients with a history of hypersensitivity to rifamycins.

5 WARNINGS AND PRECAUTIONS

5.1 Hepatotoxicity

Elevations of liver transaminases may occur in patients receiving PRIFITIN [see *Adverse Reactions* (6.1)]. Patients on PRIFITIN should be monitored for symptoms of liver injury.

Patients with abnormal liver tests and/or liver disease or patients initiating treatment for active pulmonary tuberculosis should only be given PRIFITIN in cases of necessity and under strict medical supervision. In such patients, obtain serum transaminase levels prior to therapy and every 2-4 weeks while on therapy. Discontinue PRIFITIN if evidence of liver injury occurs.

DO dosage FORMS AND STRENGTHS

- 150 mg tablets (3)

CONTRAINDICATIONS

Known hypersensitivity to any rifamycin. (4.1)

WARNINGS AND PRECAUTIONS

- Hepatotoxicity: Monitor for symptoms of liver injury and discontinue PRIFITIN if signs or symptoms or liver injury occur. (5.1)
- Hypersensitivity: Discontinue PRIFITIN if signs or symptoms of hypersensitivity reaction occur. (5.2)
- Relapse in the treatment of active pulmonary tuberculosis: Do not use as a once-weekly continuation phase regimen with isoniazid in HIV-infected patients. Monitor for signs or symptoms of relapse in patients with cavity lesions or bilateral disease. (5.3, 14.1)
- Drug Interactions: May interact with drugs metabolized by CYP50. (5.4, 7.1, 7.4)
- Discoloration of body fluids: May permanently stain contact lenses or dentures red-orange. (5.5)
- Clostridium difficile*-associated diarrhea: Evaluate if diarrhea occurs. (5.6)
- Porphyria: Avoid use in patients with porphyria. (5.7)

ADVERSE REACTIONS

The most common adverse reactions with regimen for active pulmonary tuberculosis (1% and greater) are anemia, lymphopenia, neutropenia, increased ALT, arthralgia, conjunctivitis, headache, vomiting, nausea, diarrhea, rash, pruritus, anorexia and lymphadenopathy. The most common adverse reaction (1% and greater) with the regimen for latent tuberculosis infection is hypersensitivity reaction. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact sanofi-aventis U.S. LLC at 1-800-633-1610 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch

DRUG INTERACTIONS

- Protease Inhibitors and Reverse Transcriptase Inhibitors: (5.2, 7.1)
- Hormonal Contraceptives: Use another means of birth control. (7.3)
- May increase metabolism and decrease the activity of drugs metabolized by cytochrome P450 3A4 and 2C8/9. Dosage adjustments may be necessary if given concomitantly. (7.4)

USE IN SPECIFIC POPULATIONS

- Pregnancy: Based on animal data, may cause fetal harm. (8.1)
- Nursing Mothers: Discontinue drug or nursing taking into consideration importance of drug to mother. (8.3)
- Pediatric: Safety and effectiveness in treating active pulmonary tuberculosis in children under the age of 12 years have not been established. (8.4)

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

Revised: 11/2016

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*Sections or subsections omitted from the full prescribing information are not listed.

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5.2 Hypersensitivity and Related Reactions

Signs and symptoms of these reactions may include hypotension, urticaria, angioedema, acute bronchospasm, conjunctivitis, thrombocytopenia, neutropenia or flu-like syndrome (weakness, fatigue, muscle pain, nausea, vomiting, headache, fever, chills, aches, rash, itching, sweats, dizziness, shortness of breath, chest pain, cough, syncope, palpitations). There have been reports of anaphylaxis [see *Patient Counseling Information* (17)].

Monitor patients receiving PRIFITIN therapy for signs and/or symptoms of hypersensitivity reactions. If these symptoms occur, administer supportive measures and discontinue PRIFITIN.

5.3 Relapse in the Treatment of Active Pulmonary Tuberculosis

PRIFITIN has not been evaluated as part of the initial phase treatment regimen in HIV-infected patients with active pulmonary TB. Do not use PRIFITIN as a once-weekly continuation phase regimen in HIV-infected patients with active pulmonary tuberculosis because of a higher rate of failure and/or relapse with rifampin-resistant organisms [see *Clinical Studies* (14.1)]. Higher relapse rates may occur in patients with cavity/pulmonary lesions and/or positive sputum cultures after the initial phase of active tuberculosis treatment and in patients with evidence of bilateral pulmonary disease. Monitor for signs and symptoms of TB relapse in these patients [see *Clinical Studies* (14.1)]. Poor adherence to therapy is associated with high relapse rate. Emphasize the importance of compliance with therapy [see *Patient Counseling Information* (17)].

5.4 Drug Interactions

PRIFITIN is an inducer of CYP450 enzymes. Concomitant use of rifapentine with other drugs metabolized by these enzymes, such as protease inhibitors, certain reverse transcriptase inhibitors, and hormonal contraception may cause a significant decrease in plasma concentrations and loss of therapeutic effect [see *Drug Interactions* (7.1, 7.2, 7.3, 7.4) and *Clinical Pharmacology* (12.3)].

5.5 Discoloration of Body Fluids

PRIFITIN may produce a red-orange discoloration of body tissues and/or fluids (e.g., skin, teeth, tongue, urine, feces, saliva, sputum, tears, sweat, and cerebrospinal fluid). Contact lenses or dentures may become permanently stained.

5.6 Clostridium Difficile-Associated Diarrhea

Clostridium difficile-associated diarrhea (CDAD) has been reported with the use of nearly all systemic antibacterial agents, including PRIFITIN, with severity ranging from mild diarrhea to fatal colitis. Treatment with antibacterial agents can alter the normal flora of the colon and may permit over-growth of *C. difficile*.

C. difficile produces toxins A and B which contribute to the development of CDAD. Hyperimmunogenic strains of *C. difficile* cause increased morbidity and mortality, as these toxins can be refractory to antimicrobial therapy and may require colectomy. CDAD must be considered in all patients who present with diarrhea following antibacterial use. Careful medical history is necessary because CDAD has been reported to occur over two months after the administration of antibacterial agents.

If CDAD is suspected or confirmed, discontinue antibacterial use not directed against *C. difficile* if possible. Institute appropriate measures such as fluid and electrolyte management, protein supplementation, antibacterial treatment of *C. difficile*, and surgical evaluation as clinically indicated.

5.7 Porphyria

Porphyria has been reported in patients receiving rifampin, attributed to induction of delta amino levulinic acid synthetase. Because PRIFITIN may have similar enzyme induction properties, avoid the use of PRIFITIN in patients with porphyria.

6 ADVERSE REACTIONS

The following serious and otherwise important adverse drug reactions are discussed in greater detail in other sections of labeling:

- Hepatotoxicity [see *Warnings and Precautions* (5.1)]
- Hypersensitivity [see *Contraindications* (4.1) and *Warnings and Precautions* (5.2)]
- Discoloration of Body Fluids [see *Warnings and Precautions* (5.5)]
- Clostridium Difficile*-Associated Diarrhea [see *Warnings and Precautions* (5.6)]
- Porphyria [see *Warnings and Precautions* (5.7)]

6.1 Clinical Trials Experience

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.

Active Pulmonary Tuberculosis

PRIFITIN was studied in a randomized, open label, active-controlled trial of HIV-negative patients with active pulmonary tuberculosis. The population consisted of primarily of male subjects with a mean age of 37 ± 11 years. In the initial 2 month phase of treatment, 361 patients received PRIFITIN 600 mg twice a week in combination with daily isoniazid, pyrazinamide, and ethambutol and 361 subjects received rifampin in combination with isoniazid, pyrazinamide and ethambutol all administered daily. Ethambutol was discontinued when drug susceptibility testing was known. During the 4 month continuation phase, 317 patients in the PRIFITIN group continued to receive PRIFITIN 600 mg dosed once weekly with isoniazid and 304 patients in the rifampin group received twice weekly rifampin and isoniazid. Both treatment groups received pyridoxine (Vitamin B6) over the 6 month treatment period.

Because PRIFITIN was administered as part of a combination regimen, the adverse reaction profile reflects the entire regimen.

Twenty-two deaths occurred in the study, eleven in the rifampin combination therapy group and eleven in the PRIFITIN combination therapy group. 18/361 (5%) rifampin combination therapy patients discontinued the study due to an adverse reaction compared to 11/361 (3%) PRIFITIN combination therapy patients. Three patients from rifampin combination therapy patients and one PRIFITIN combination therapy patient were discontinued in the initial phase due to hepatotoxicity. Concomitant medications for all three patients included isoniazid, pyrazinamide, ethambutol, and pyridoxine. All three recovered without sequelae.

Five patients had adverse reactions associated with PRIFITIN overdose. These reactions included hematoma, neutropenia, hyperglycemia, ALT increased, hyperurkemia, pruritus, and arthralgia.

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Table 2 presents selected treatment-emergent adverse reactions associated with the treatment regimens which occurred in at least 1% of patients during treatment and post-treatment through the first three months of follow-up.

Table 2: Selected Treatment Emergent Adverse Reactions During Treatment of Active Pulmonary Tuberculosis and Through Three Months Follow-up

System Organ Class Preferred Term	Initial Phase ¹		Continuation Phase ²	
	PRIFITIN Combination (N=361) N (%)	Rifampin Combination (N=361) N (%)	PRIFITIN Combination (N=317) N (%)	Rifampin Combination (N=304) N (%)
BLOOD AND LYMPHATICS				
Anemia	41 (11.4)	41 (11.4)	5 (1.6)	10 (3.3)
Lymphopenia	38 (10.5)	37 (10.2)	10 (3.2)	9 (3.1)
Neutropenia	22 (6.1)	21 (5.8)	27 (8.5)	24 (7.9)
Leukocytosis	6 (1.7)	13 (3.6)	5 (1.6)	2 (0.7)
Thrombocytosis	20 (5.5)	13 (3.6)	1 (0.3)	0 (0.0)
Thrombocytopenia	6 (1.7)	6 (1.7)	4 (1.3)	6 (2.0)
Lymphadenopathy	4 (1.1)	2 (0.6)	0 (0.0)	2 (0.7)
Nonprotein Nitrogen Increased	4 (1.1)	3 (0.8)	10 (3.2)	15 (4.9)
EYE				
Conjunctivitis	8 (2.2)	2 (0.6)	1 (0.3)	1 (0.3)
GASTROINTESTINAL				
Dyspepsia	6 (1.7)	11 (3.1)	4 (1.3)	6 (2.0)
Vomiting	6 (1.7)	14 (3.9)	3 (0.9)	3 (1.0)
Nausea	7 (1.9)	3 (0.8)	2 (0.6)	1 (0.3)
Diarrhea	5 (1.4)	2 (0.6)	2 (0.6)	0 (0.0)
GENERAL				
Back Pain	15 (4.2)	11 (3.1)	11 (3.5)	4 (1.3)
Abdominal Pain	3 (0.8)	3 (0.8)	4 (1.3)	4 (1.3)
Fever	5 (1.4)	7 (1.9)	1 (0.3)	1 (0.3)
Anorexia	14 (3.9)	18 (5.0)	8 (2.5)	6 (2.0)
HEPATIC & BILIARY				
ALT Increased	18 (5.1)	23 (6.4)	7 (2.2)	10 (3.3)
AST Increased	15 (4.2)	18 (5.1)	7 (2.2)	8 (2.6)
MUSCULOSKELETAL				
Arthralgia	13 (3.6)	13 (3.6)	3 (0.9)	5 (1.6)
NEUROLOGIC				
Headache	11 (3.1)	13 (3.6)	3 (0.9)	7 (2.3)
Dizziness	5 (1.4)	5 (1.4)	1 (0.3)	1 (0.3)
RESPIRATORY				
Hemoptysis	27 (7.5)	20 (5.5)	6 (1.9)	6 (2.0)
Coughing	21 (5.8)	8 (2.2)	9 (2.8)	11 (3.6)
SKIN				
Rash	15 (4.2)	26 (7.2)	8 (2.5)	8 (2.6)
Sweating Increased	19 (5.3)	18 (5.1)	5 (1.6)	4 (1.3)
Pruritus	10 (2.8)	16 (4.4)	3 (0.9)	0 (0.0)
Rash Maculopapular	6 (1.7)	3 (0.8)	0 (0.0)	1 (0.3)

1. Initial phase consisted of therapy with either PRIFITIN twice weekly or rifampin daily combined with daily isoniazid, pyrazinamide, and ethambutol for 60 days.

2. Continuation phase consisted of therapy with either PRIFITIN once weekly or rifampin twice weekly combined with daily isoniazid for 120 days. The following selected treatment-emergent adverse reactions were reported in less than 1% of the PRIFITIN combination therapy patients during treatment and post-treatment through the first three months of follow-up.

Blood and Lymphatics: lymphocytosis, hematoma, purpura, thrombosis.

Cardiovascular: syncope, tachycardia, palpitation, orthostatic hypotension, pericarditis.

Metabolic & Nutritional: BUN increased, alkaline phosphatase increased.

Gastrointestinal: gastritis, esophagitis, pancreatitis, salivary gland enlargement.

General: asthenia, facial edema.

Hepatology: bilirubinemia, hepatomegaly, jaundice.

Infectious Disease: infection fungal.

Musculoskeletal: myalgia, myositis.

Neurologic: somnolence, dysphonia.

Pregnancy, Puerperium and Perinatal conditions: abortion

Psychiatric: anxiety, confusion

Reproductive Disorders: vaginitis, vaginal hemorrhage, leukorrhea.

Respiratory: dyspnea, pneumonitis, pulmonary fibrosis, asthma, bronchospasm, laryngeal edema, laryngitis.

Skin: urticaria, skin discoloration.

In another randomized, open-label trial, 1075 HIV non-infected and infected patients with active pulmonary tuberculosis who had completed an initial 2 month phase of treatment with 4 drugs were randomly assigned to receive either PRIFITIN 600 mg and isoniazid once weekly or rifampin and isoniazid twice weekly for the 4 month continuation phase. 502 HIV non-infected and 36 HIV-infected patients were randomized to receive the PRIFITIN regimen and 502 HIV-noninfected and 35 HIV-infected patients were randomized to receive the rifampin regimen.

The death rate was 6.5% for the PRIFITIN combination regimen compared to 6.7% for the rifampin combination regimen.

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8.3 Nursing Mothers

It is not known whether PRIFITIN is present in human milk. Because many drugs are excreted in human milk and because of the potential for serious adverse reactions in nursing infants, a decision should be made whether to discontinue nursing or discontinue the drug, taking into account the importance of the drug to the mother [see *Nonclinical Toxicology* (13.1)]. Since PRIFITIN may produce a red-orange discoloration of body fluids, there is a potential for discoloration of breast milk. A slight increase in rat pup mortality was observed during lactation when dams were dosed late in gestation through lactation.

8.4 Pediatric Use

The safety and effectiveness of PRIFITIN in the treatment of active pulmonary tuberculosis have not been established in pediatric patients under the age of 12. The safety and effectiveness of PRIFITIN in combination with isoniazid once-weekly regimen has been evaluated in pediatric patients (2-17 years of age) for the treatment of latent tuberculosis infection. In clinical studies, the safety profile in children was similar to that observed in adult patients [see *Adverse Reactions* (6.1) and *Clinical Studies* (14.2)].

In a pharmacokinetic study conducted in 2-year to 11-year-old pediatric patients with latent tuberculosis infection, PRIFITIN was administered once weekly based on weight (15 mg/kg to 30 mg/kg, up to a maximum of 900 mg). Exposures (AUC) in children 2 years to 11 years with latent tuberculosis infection were higher (average 31%) than those observed in adults receiving PRIFITIN 900 mg once weekly [see *Dosage and Administration* (2.2) and *Clinical Pharmacology* (12.3)].

8.5 Geriatric Use

Clinical studies with PRIFITIN did not include sufficient numbers of subjects aged 65 years and over to determine whether they respond differently from younger subjects. In a pharmacokinetic study with PRIFITIN, no substantial differences in the pharmacokinetics of rifapentine and 25-desacetyl metabolite were observed in the elderly compared to younger adults [see *Clinical Pharmacology* (12.3)].

10 OVERDOSAGE

While there is no experience with the treatment of acute overdose with PRIFITIN, clinical experience with rifamycins suggests that gastric lavage to evacuate gastric contents (within a few hours of overdose) followed by instillation of an activated charcoal slurry into the stomach, may help adsorb any remaining drug from the gastrointestinal tract.

Rifapentine and 25-desacetyl rifapentine are 97.7% and 93.2% plasma protein bound, respectively. Rifapentine and related compounds excreted in urine account for only 17% of the administered dose; therefore, neither hemodialysis nor forced diuresis is expected to enhance the systemic elimination of unchanged rifapentine from the body of a patient with PRIFITIN overdose.

11 DESCRIPTION

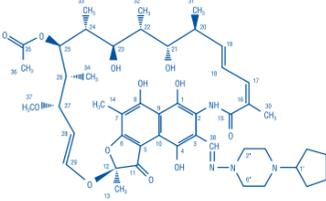
PRIFITIN (rifapentine) for oral administration contains 150 mg of the active ingredient rifapentine per tablet.

The 150 mg tablets also contain, as inactive ingredients: calcium stearate, disodium EDTA, FD&C Blue No. 2, aluminum lake, hydroxypropyl cellulose, hypromellose USP, microcrystalline cellulose, polyethylene glycol, pregelatinized starch, propylene glycol, sodium ascorbate, sodium lauryl sulfate, sodium starch glycolate, synthetic red iron oxide, and titanium dioxide.

Rifapentine is a rifamycin derivative antimicrobial and has a similar profile of microbiological activity to rifampicin. The molecular weight is 877.04.

The molecular formula is C₂₇H₄₆N₄O₁₂.

The chemical name for rifapentine is rifamycin, 3-[[[4-(cyclopentyl-1-piperazinyl)imino]methyl] or 3-[N-(4-Cyclopentyl-1-piperazinyl)formimidoyl] rifamycin or 5,6,9,17,19,21-heptahydroxy-23-methoxy-2,4,12,16,18,20,22-heptamethyl-8-[N-(4-(cyclopentyl-1-piperazinyl)-formimidoyl)-2,7-deoxy]pentadecate[1,11,13], [13n]nimeninophth[2,1-b]furan-1,11[2H]-dione 21-acetate. It has the following structure:



12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Rifapentine, a cyclopropyl rifamycin, is an antimycobacterial agent [see *Clinical Pharmacology, Microbiology* (12.4)].

12.3 Pharmacokinetics

When oral doses of PRIFITIN were administered once daily or once every 72 hours to healthy volunteers for 10 days, single dose AUC_(0-∞) of rifapentine was similar to its steady-state

AUC₍₀₋₂₄₎ or AUC₍₀₋₇₂₎ values, suggesting no significant auto-induction effect on steady-state pharmacokinetics of rifapentine. Steady-state conditions were achieved by day 10 following daily administration of PRIFITIN 600 mg. No plasma accumulation of rifapentine and 25-desacetyl rifapentine (active metabolite) is expected after once weekly administration of PRIFITIN.

The pharmacokinetic parameters of rifapentine and 25-desacetyl rifapentine on day 10 following oral administration of 600 mg PRIFITIN every 72 hours to healthy volunteers are described in Table 5.

Table 5: Pharmacokinetics and Rifapentine and 25-Desacetyl Rifapentine in Healthy Volunteers.

Parameter	Rifapentine	25-desacetyl Rifapentine
	Mean ± SD (n=12)	6.26 ± 2.06
C _{max} (µg/mL)	15.05 ± 4.62	215.88 ± 85.96
AUC _(0-72h) (µg ^h /mL)	319.54 ± 91.52	13.35 ± 2.67
T _{1/2} (h)	12.39 ± 1.38	11.25 ± 2.73
T _{max} (h)	4.83 ± 1.80	
CL/F (L/h)	2.03 ± 0.60	

The pharmacokinetic parameters of rifapentine and 25-desacetyl rifapentine following single-dose oral administration of 900 mg PRIFITIN in combination with 900 mg isoniazid in fed conditions are described in Table 6.

Table 6: Mean ± SD Pharmacokinetic Parameters of Rifapentine and 25-Desacetyl Rifapentine in Healthy Volunteers When PRIFITIN is Coadministered with Isoniazid Under Fed Conditions (N=16).

Parameter	Rifapentine	25-desacetyl Rifapentine
	Mean ± SD	Mean ± SD
C _{max} (µg/mL)	25.87 ± 5.83	13.3 ± 4.83
AUC (µg ^h /mL)	817 ± 128	601 ± 187
T _{1/2} (h)	16.6 ± 5.02	17.5 ± 7.42
T _{max} (h)*	8 (3-10)	24 (10-36)
CL/F (L/h)	1.13 ± 0.174	NA**

* Median (Min-Max)

** Not Applicable

Absorption

The absolute bioavailability of PRIFITIN has not been determined. The relative bioavailability (with an oral solution as a reference) of PRIFITIN after a single 600 mg dose to healthy adult volunteers was 70%. The maximum concentrations were achieved from 5 hours to 6 hours after administration of the 600 mg PRIFITIN dose.

The administration of PRIFITIN with a high fat meal increased rifapentine C_{max} and AUC by 40% to 50% over that observed when PRIFITIN was administered under fasting conditions.

The administration of PRIFITIN (900 mg single dose) and isoniazid (900 mg single dose) with a low fat, high carbohydrate breakfast, led to a 47% and 51% increase in rifapentine C_{max} and AUC, respectively. In contrast, the ingestion of the same meal decreased isoniazid C_{max} and AUC by 46% and of 23%, respectively.

Distribution

In a population pharmacokinetic analysis in 351 tuberculosis patients who received 600 mg PRIFITIN in combination with isoniazid, pyrazinamide and ethambutol, the estimated apparent volume of distribution was 70.2 ± 9.1 L. In healthy volunteers, rifapentine and 25-desacetyl rifapentine were 97.7% and 93.2% bound to plasma proteins, respectively. Rifapentine was mainly bound to albumin. Similar extent of protein binding was observed in healthy volunteers, asymptomatic HIV-infected subjects and hepatically impaired subjects.

Metabolism/Excretion

Following a single 600 mg oral dose of radiolabeled rifapentine to healthy volunteers (n=4), 87% of the total ¹⁴C-rifapentine was recovered in the urine (17%) and feces (70%). Greater than 80% of the total ¹⁴C-rifapentine dose was excreted from the body within 7 days. Rifapentine was hydrolyzed by an esterase enzyme to form a microbiologically active 25-desacetyl rifapentine. Rifapentine and 25-desacetyl rifapentine accounted for 99% of the total radioactivity in plasma. Plasma AUC_(0-∞) and C_{max} values of the 25-desacetyl rifapentine metabolite were one-half and one-third those of the rifapentine, respectively. Based upon relative *in vitro* activities and AUC_(0-∞) values, rifapentine and 25-desacetyl rifapentine potentially contributes 62% and 38% to the clinical activities against *M. tuberculosis*, respectively.

Specific Populations

Gender: In a population pharmacokinetics analysis of sparse blood samples obtained from 351 tuberculosis patients who received 600 mg PRIFITIN in combination with isoniazid, pyrazinamide and ethambutol, the estimated apparent oral clearance of PRIFITIN for males and females was 2.51 ± 0.14 L/h and 1.69 ± 0.41 L/h, respectively. The clinical significance of the difference in the estimated apparent oral clearance is not known.

Elderly: Following oral administration of a single 600 mg dose of PRIFITIN to elderly (65 years and older) male healthy volunteers (n=14), the pharmacokinetics of rifapentine and 25-desacetyl metabolite were similar to that observed for young (18 to 45 years) healthy male volunteers (n=20).

Pediatric: In a pharmacokinetic study in pediatric patients (age 2 to 12 years), a single oral dose of 150 mg PRIFITIN was administered to those weighing less than 30 kg (n=11) and a single oral dose of 300 mg was administered to those weighing greater than 30 kg (n=12). The mean estimates of AUC and C_{max} were approximately 30% to 50% lower in these pediatric patients than those observed in healthy adults administered single oral doses of 600 mg and 900 mg.

A study comparing the pharmacokinetics of rifapentine in pediatric patients (age 2 years to 11 years) with latent tuberculosis infection (n=80) receiving PRIFITIN once weekly based on weight (15 mg/kg to 30 mg/kg, up to a maximum of 900 mg, see Table 7) to that of adults (n=77) receiving PRIFITIN 900 mg once weekly. Children who could not swallow whole tablets were administered crushed tablets mixed in soft food. Overall, the geometric mean AUC of rifapentine in this age group was 31% higher compared to adult patients receiving 900 mg PRIFITIN once weekly (720 versus 551 mg^h/mL). The geometric mean AUC of rifapentine was 60% higher in children administered whole tablets (884 versus 551 mg^h/mL) and 19% higher in children administered crushed tablets (656 versus 551 mg^h/mL), as compared to exposures in adults. Pediatric patients administered crushed PRIFITIN tablets had 26% lower rifapentine exposures compared to those pediatric patients who were given whole tablets.

Population pharmacokinetic analysis showed that rifapentine clearance adjusted to body weight decreased with increasing age of pediatric patients (2-18 years). In another pharmacokinetic study of PRIFITIN in healthy adolescents (age 12 to 15 years), 600 mg PRIFITIN was administered to those weighing ≥45 kg (n=10) and 450 mg was administered to those weighing less than 45 kg (n=3). The pharmacokinetics of rifapentine was similar to those observed in healthy adults.

Renal Impaired Patients: The pharmacokinetics of rifapentine has not been evaluated in renal impaired patients. Although only about 17% of an administered dose is excreted via the kidneys, the clinical significance of impaired renal function on the disposition of rifapentine and its 25-desacetyl metabolite is not known.

Hepatic Impaired Patients: Following oral administration of a single 600 mg dose of PRIFITIN to mild to severe hepatic impaired patients (n=15), the pharmacokinetics of rifapentine and 25-desacetyl metabolite were similar in patients with various degrees of hepatic impairment and to that observed in another study for healthy volunteers (n=12).

Asymptomatic HIV-infected Volunteers: Following oral administration of a single 600 mg dose of PRIFITIN to asymptomatic HIV-infected volunteers (n=15) under fasting conditions, mean C_{max} and AUC values of rifapentine were lower (20% to 28% than that observed in other studies in healthy volunteers (n=53). In a cross-study comparison, mean C_{max} and AUC values of the 25-desacetyl rifapentine, when compared to healthy volunteers were higher (6%-21% in one study (n=20), but lower (15%-16%) in a different study (n=40). The clinical significance of this observation is not known. Food (850 total calories: 33 g protein, 55 g fat, and 58 g carbohydrate) increases the mean AUC and C_{max} of rifapentine observed under fasting conditions in asymptomatic HIV-infected volunteers by about 51% and 53%, respectively.

Drug-Drug Interactions

Isoniazid: Coadministration of PRIFITIN (900 mg single dose) and isoniazid (900 mg single dose), in fasted condition, did not result in any significant change in the

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exposure of rifapentine and isoniazid compared to when administered alone in fasted condition.

Rifapentine is an inducer of cytochrome P450 3A4 and 2C8/9. Therefore, it may increase the metabolism and decrease the activity of other coadministered drugs that are metabolized by these enzymes. Dosage adjustments of the coadministered drugs may be necessary if they are given concurrently with PRIFITIN [see *Drug Interactions* (7.4)].

Indinavir: In a study in which 600 mg PRIFITIN was administered twice weekly for 14 days followed by PRIFITIN twice weekly plus 800 mg indinavir 3 times a day for an additional 14 days, indinavir C_{max} decreased by 35% while AUC increased by 70%. Clearance of indinavir increased by 346% in the presence of PRIFITIN while half-life did not change. But when indinavir was administered for 14 days followed by coadministration with PRIFITIN for an additional 14 days, indinavir did not affect the pharmacokinetics of rifapentine [see *Warnings and Precautions* (5.4) and *Drug Interactions* (7.1)].

Fixed dose combination of efavirenz, emtricitabine and tenofovir: Once-weekly coadministration of 900 mg PRIFITIN with the antiretroviral fixed dose combination of efavirenz 600 mg, emtricitabine 200 mg and tenofovir disoproxil fumarate 300 mg in HIV-infected patients did not result in any substantial change in steady state exposures of efavirenz, emtricitabine, and tenofovir (Table 7). A 15% decrease in efavirenz C_{max} and AUC and a 13% decrease in tenofovir C_{min} were observed with repeated weekly doses of PRIFITIN (Table 7). No clinically significant change in CD4 cell counts or viral loads were noted.

Table 7: Treatment Ratio Estimates with versus without repeated once-weekly PRIFITIN 900 mg with 90% Confidence Intervals for Efavirenz, Emtricitabine and Tenofovir Pharmacokinetic Parameters

	efavirenz Point Estimates (90% CI)	emtricitabine Point Estimates (90% CI)	tenofovir Point Estimates (90% CI)
C _{max}	0.92 (0.82-1.03)	0.95 (0.81-1.10)	1.00 (0.82-1.22)
C _{min}	0.85 (0.79-0.93)	0.97 (0.90-1.05)	0.87(0.73-1.03)
AUC ₀₋₂₄	0.86 (0.79-0.93)	0.93 (0.89-0.98)	0.91(0.85-0.98)

12.4 Microbiology

Mechanism of Action

Rifapentine, a cyclopropyl rifamycin, inhibits DNA-dependent RNA polymerase in susceptible strains of *Mycobacterium tuberculosis* but does not affect mammalian cells at concentrations that are active against these bacteria. At therapeutic levels, rifapentine inhibits RNA transcription by preventing the initiation of RNA-chain formation. It forms a stable complex with bacterial DNA-dependent RNA polymerase, leading to repression of RNA synthesis and cell death. Rifapentine and its 25-desacetyl metabolite accumulate in human monocyte-derived macrophages and are bactericidal to both intracellular and extracellular *M. tuberculosis* bacilli.

Mechanism of Resistance

The mechanism of resistance to rifapentine appears to be similar to that of rifampin. Bacterial resistance to rifapentine is caused by an alteration in the target site, the beta subunit of the DNA-dependent RNA polymerase, caused by a one-step mutation in the *rpoB* gene. The incidence of rifapentine resistant mutants in an otherwise susceptible population of *M. tuberculosis* strains is approximately one in 10¹⁰ to 10¹⁰ bacilli. Rifapentine resistance appears to be associated with monotheopy. Therefore, rifapentine should always be used in combination with other antituberculous drugs.

Cross Resistance

M. tuberculosis organisms resistant to other rifamycins are likely to be resistant to rifapentine. A high level of cross-resistance between rifamycin and rifapentine has been demonstrated with *M. tuberculosis* strains. Cross-resistance between rifapentine and non-rifamycin antimycobacterial agents has not been identified in clinical isolates.

Susceptibility Test Methods

In vitro susceptibility tests should be performed according to published methods.¹ Susceptibility test interpretive criteria and quality control ranges for *in vitro* susceptibility testing of Rifapentine have not been established.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Hepatocellular carcinomas were increased in male NHR1 mice (Haran Winkelmann) which were treated orally with rifapentine for two years at or above doses of 5 mg/kg/day (0.04 times the recommended human dose based on body surface area conversion). In a two year rat study, there was an increase in nasal cavity adenomas in Wistar rats treated orally with rifapentine at 40 mg/kg/day (0.6 times human dose based on body surface area conversions).

Rifapentine was negative in the following genotoxicity tests: in *in vitro* gene mutation assay in bacteria (Ames test); *in vitro* point mutation test in *Aspergillus nidulans*; *in vitro* gene conversion assay in *Saccharomyces cerevisiae*; host-mediated (mouse) gene conversion assay with *Saccharomyces cerevisiae*; *in vitro* Chinese hamster ovary cell/hypoxanthine-guanine phosphoribosyltransferase (CHO/HGPRT) forward mutation assay; *in vitro* chromosomal aberration assay utilizing rat lymphocytes; and *in vivo* mouse bone marrow micronucleus assay.

The 25-desacetyl metabolite of rifapentine was positive in the *in vitro* mammalian chromosome aberration test in V79 Chinese Hamster cells, but was negative in the *in vitro* gene mutation assay in bacteria (Ames test), the *in vitro* Chinese hamster ovary cell/hypoxanthine-guanine phosphoribosyltransferase (CHO/HGPRT) forward mutation assay, and the *in vivo* mouse bone marrow micronucleus assay. Fertility and reproductive performance were not affected by oral administration of rifapentine to male and female rats at doses of up to 20 mg/kg/day (one-third of the human dose based on body surface area conversions).

14 CLINICAL STUDIES

14.1 Active Pulmonary Tuberculosis

PRIFITIN was studied in two randomized, open-label controlled clinical trials in the treatment of active pulmonary tuberculosis.

The first trial was an open-label, prospective, parallel group, active-controlled trial in HIV-negative patients with active pulmonary tuberculosis. The population mostly comprised Black (approximately 60%) or multiracial (approximately 31%) patients. Treatment groups were comparable for age and sex and consisted primarily of male subjects with a mean age of 37 ± 11 years. In the initial 2 month phase of treatment, 361 patients received PRIFITIN 600 mg twice a week in combination with daily isoniazid, pyrazinamide, and ethambutol and 361 subjects received rifampin 600 mg in combination with isoniazid, pyrazinamide and ethambutol all administered daily. The doses of the companion drugs were the same in both treatment groups during the initial phase: isoniazid 300 mg, pyrazinamide 2000 mg, and ethambutol 1200 mg. For patients weighing less than 50 kg, the doses of rifampin (450 mg), pyrazinamide (1500 mg) and ethambutol (800 mg) were reduced. Ethambutol was discontinued when isoniazid and rifampin susceptibility testing results were confirmed. During the 4 month continuation phase, 317 patients in the PRIFITIN group continued to receive PRIFITIN 600 mg dosed once weekly with isoniazid 300 mg and 304 patients in the rifampin group received twice weekly rifampin and isoniazid 900 mg. For patients weighing less than 50 kg, the doses of rifampin (450 mg) and isoniazid (600 mg) were reduced. Both treatment groups received pyridoxine (Vitamin B6) 25 mg daily. Treatment of both groups was directly observed. 65261 (18%) of patients in the PRIFITIN group and 43461 (9%) in the rifampin group received overtures of one or more of the administered study medications during the initial or continuation phase of treatment. Seven of these patients had adverse reactions reported with the overdose (5 in the PRIFITIN group and 2 in the rifampin group). Table 8 below contains assessments of sputum conversion at end of treatment (6 months) and relapse rates at the end of follow-up (24 months).

Table 8: Clinical Outcome in HIV Negative Patients with Active Pulmonary Tuberculosis (Trial 1)

	PRIFITIN Combination Treatment % and (n/N)*	Rifampin Combination Treatment % and (n/N)*
	Status at End of 6 months of Treatment	
Converted	87% (249/286)	80% (226/283)
Not Converted	1% (4/286)	3% (8/283)
Lost to Follow-up	12% (34/286)	17% (49/283)
Status Through 24 Month Follow-up**:		
Relapsed	12% (29/248)	7% (15/226)
Sputum Negative	57% (142/248)	68% (145/226)
Lost to Follow-up	31% (77/248)	29% (66/226)

* All data for patients with confirmed susceptible *M. tuberculosis* PRIFITIN combination treatment, N=286; rifampin combination treatment, N=283.

** Twenty-two (22) deaths occurred during the study; 11 in each treatment group

Risk of relapse was greater in the group treated with the PRIFITIN combination. Higher relapse rates were associated with a lower rate of compliance as well as a failure to convert sputum cultures at the end of the initial 2 month treatment phase. Relapse rates were also higher for males in both regimens. Relapse in the PRIFITIN group was not associated with development of mono-resistance to rifampin.

The second trial was randomized, open-label performed in 1075 HIV-negative and positive patients with active pulmonary tuberculosis. Patients with culture-positive, drug-susceptible pulmonary tuberculosis who had completed the initial 2-month phase of treatment with 4 drugs (rifampin, isoniazid, pyrazinamide, and either ethambutol or streptomycin) under direct observation were randomly assigned to receive either PRIFITIN 600 mg and isoniazid 15 mg/kg (max 900 mg) once weekly or rifampin 10 mg/kg (max 600 mg) and isoniazid 15 mg/kg (max 900 mg) twice weekly for the 4 month continuation phase. Study drugs were given under direct observation therapy in both groups.

In the PRIFITIN group, 502 HIV-negative and 36 HIV-positive patients were randomized and in the rifampin group 502 HIV-negative and 35 HIV-positive patients were randomized to treatment. Enrollment of HIV-infected patients was stopped when 4 of 36 patients in the PRIFITIN combination group relapsed with isolates that were rifampin resistant.

Table 9 below contains assessments of sputum conversion at the end of treatment (6 months total: 2 months of initial and 4 months of randomized continuation treatment) and relapse rates at the end of follow-up (24 months) in all HIV-negative patients randomized to treatment. Positive culture was based on either one sputum sample with >10 colonies on solid media OR at least 2 positive sputum samples on liquid or solid media. However, only one sputum sample was collected at each time in a majority of patients.

Table 9: Clinical Outcome in HIV Negative Patients with Active Pulmonary Tuberculosis (Trial 2)

	PRIFITIN Combination Treatment % (n/N)	Rifampin Combination Treatment % (n/N)
	Status at End of 4 Months Continuation Phase	
Treatment Response †	93.8% (471/502)	91% (457/502)
Not Converted	1% (5/502)	1.2% (6/502)
Did Not Complete Treatment**	4.2% (21/502)	7% (35/502)
Deaths	1% (5/502)	0.8% (4/502)
Status Through 24 Month Follow-up:		
Relapsed	8.7% (41/471)	4.8% (22/457)
Sputum Negative	79.4% (374/471)	80.1% (366/457)
Lost to Follow-up	7.9% (37/471)	9.8% (45/457)
Deaths	4% (19/471)	5% (24/457)

* Treatment response was defined as subjects who had two negative sputum cultures after 16 doses of rifampin and isoniazid or after 8 doses of PRIFITIN and isoniazid, and remained sputum negative through the end of continuation phase therapy.

** Due to drug toxic effects, non-adherence, withdrawal of consent, receipt of non-study regimen, etc.

In HIV-negative patients, higher relapse rates were seen in patients with a positive sputum culture at 2 months [i.e., at the time of study randomization], cavitation on chest x-ray, and bilateral pulmonary involvement.

Sixty-one HIV-positive patients were assessed for relapse. The rates of relapse were 16.7% (5/30) in the PRIFITIN group and 9.7% (3/31) in the rifampin group. In HIV-positive patients, 4 of the 5 relapses in the PRIFITIN combination group involved *M. tuberculosis* strains with rifampin mono-resistance. No relapse strain in the twice weekly rifampin / isoniazid group acquired drug resistance.

The death rate among all study participants did not differ between the two treatment groups.

14.2 Latent Tuberculosis Infection

A multi-center, prospective, open-label, randomized, active-controlled trial compared the effectiveness of 12 weekly doses of PRIFITIN in combination with isoniazid (3RP/INH arm) administered by direct observation to 9 months of self-administered daily isoniazid (9INH arm). The trial enrolled patients two years of age or older with positive tuberculin skin test and at high risk for progression to tuberculosis disease. Enrolled patients included those having close contact with a patient with active tuberculosis disease, recent (within two years) conversion to a positive tuberculin skin test, HIV-infection, or fibrosis on chest radiograph. PRIFITIN was dosed by weight, for a maximum of 900 mg weekly, isoniazid mg/kg dose was determined by age, for a maximum of 900 mg weekly in the 3RP/INH arm and 300 mg daily in the 9INH arm [see *Dosage and Administration* (2.2)].

The outcome measure was the development of active tuberculosis disease, defined as culture confirmed tuberculosis in adults and culture-confirmed or clinical tuberculosis in children less than 18 years of age, at 33 months after trial enrollment. Patients who were found after enrollment to be ineligible because they had active tuberculosis disease, were contacts of a source case with culture-negative or drug-resistant tuberculosis disease cases or no information regarding susceptibility of *M. tuberculosis*, and young children lacking a positive TST on initial and repeat testing were excluded from the analysis.

Active tuberculosis disease developed in 5 of 3074 randomized patients in the 3RP/INH group (0.16%) versus 10 of 3074 patients in 9INH group (0.32%), for a difference in cumulative rates of 0.17%, 95% CI [-0.43, 0.09] (Table 10).

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Table 10: Outcomes in Randomized Patients at 33 Months Post Enrollment**

Outcome	3RP/INH (n=3074)	9INH (n=3074)	Difference**†, 95% CI
Tuberculosis n (%)	5 (0.16)	10 (0.32)	-0.16 (-0.42, 0.01)
Cumulative TB Rate (%)	0.17	0.35	-0.17 (-0.43, 0.09)
Deaths	22 (0.72)	35 (1.14)	-0.42 (-0.91, 0.06)
Lost to Follow-Up	320 (10.41)	357 (11.61)	-1.20 (-2.77, -0.36)

* Similar results were observed when all enrolled patients were included in the analysis.

** Rate in the 3RP/INH group minus the rate in the 9INH group.

† The proportion of patients completing treatment was 81.2% in the 3RP/INH group and 68.3% in the 9INH group for a difference (3RP/INH-9INH) of 12.8% 95% CI (0.7, 15.0). In the 9INH treatment group, two of the thirteen culture-confirmed cases were found to be isoniazid-mono-resistant. In the 3RP/INH treatment group, one of the seven cases was rifampin-resistant, isoniazid-susceptible