
HIGHLIGHTS OF PRESCRIBING INFORMATION

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

PRAVASTATIN SODIUM tablets, for oral use Initial U.S. Approval: 1991

RECENT MAJOR CHANGES
 Contraindications, Pregnancy and Lactation Removed (4) 05/2022
 Warnings and Precautions, Immune-Mediated Necrotizing Myopathy Updated (5.2) 05/2022
 INDICATIONS AND USAGE
 Pravastatin sodium tablets are an HMG-CoA reductase inhibitor (statin) indicated (1):
 To reduce the risk of myocardial infarction, myocardial revascularization procedures, and cardiovascular mortality in adults with elevated low-density lipoprotein cholesterol (LDL-C) without clinically evident coronary heart disease (CHD).
 To reduce the risk of coronary death, myocardial infarction, myocardial revascularization procedures, stroke or transient ischemic attack, and slow the progression of coronary atherosclerosis in adults with clinically evident CHD.
 As an adjunct to diet to reduce LDL-C in adults with primary hyperlipidemia.

- As an adjunct to diet to reduce LDL-C in pediatric patients ages 8 years and older with heterozygous familial hypercholesterolemia (HeFH).
- As an adjunct to diet for the treatment of adults with:
 - Primary dysbetalipoproteinemia.
 - Hypertriglyceridemia.

DOSAGE AND ADMINISTRATION

- Take orally once daily at any time of the day, with or without food (2.1).
- For patients that require a high-intensity statin or are unable to achieve their LDL-C goal receiving pravastatin sodium tablet 80 mg daily, prescribe alternative LDL-C lowering treatment (2.1).
- Assess LDL-C when clinically appropriate, as early as 4 weeks after initiating pravastatin sodium tablets, and adjust the dosage if necessary (2.1).
- Adults: recommended starting dosage is pravastatin sodium tablets 40 mg to 80 mg once daily. (2.2)
- Pediatric Patients (2.3):
 - aged 8 to 13 years, the recommended dosage is 20 mg once daily.
 - aged 14 to 18 years, the recommended starting dosage is 40 mg once daily.
- Severe renal impairment: recommended starting dosage is pravastatin sodium 10 mg once daily. Use another pravastatin sodium product to initiate dosing. Recommended maximum pravastatin sodium tablets dosage is 40 mg once daily. (2.4)
- See full prescribing information for dosage modifications due to drug interactions (2.5, 7).

.....DOSAGE FORMS AND STRENGTHS

• Tablets: 10 mg, 20 mg, 40 mg, 80 mg. (3)

------ CONTRAINDICATIONS

- Hypersensitivity to pravastatin or any excipient in pravastatin sodium tablets (4)
- Acute liver failure or decompensated cirrhosis (4, 5.3)

WARNINGS AND PRECAUTIONS

- *Myopathy and Rhabdomyolysis*: Risk factors include age 65 years or greater, uncontrolled hypothyroidism, renal impairment, concomitant use with certain other drugs, and higher pravastatin sodium tablets dosage. Discontinue pravastatin sodium tablets if markedly elevated CK levels occur or myopathy is diagnosed or suspected. Temporarily discontinue pravastatin sodium tablets in patients experiencing an acute or serious condition at high risk of developing renal failure secondary to rhabdomyolysis. Inform patients of the risk of myopathy and rhabdomyolysis when starting or increasing pravastatin sodium tablets dosage. Instruct patients to promptly report unexplained muscle pain, tenderness, or weakness, particularly if accompanied by malaise or fever. (5.1, 7.1, 8.5, 8.6)
- Immune-Mediated Necrotizing Myopathy (IMNM): Rare reports of IMNM, an autoimmune myopathy, have been reported. Discontinue pravastatin sodium tablets if IMNM is suspected (5.2).
- *Hepatic Dysfunction:* Increases in serum transaminases have occurred, some persistent. Rare reports of fatal and non-fatal hepatic failure have occurred. Consider testing liver enzymes before initiating therapy and as clinically indicated thereafter. If serious hepatic injury with clinical symptoms and/or hyperbilirubinemia or jaundice occurs, promptly discontinue (5.3).

ADVERSE REACTIONS

In short-term clinical trials, the most commonly reported adverse reactions (≥2% and greater than placebo) were: musculoskeletal pain, nausea/vomiting, upper respiratory infection, diarrhea, and

headache. (6.1) To report SUSPECTED ADVERSE REACTIONS, contact Apotex at 1-800-706-5575 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

- See full prescribing information for details regarding concomitant use of pravastatin sodium tablets with other drugs that increase the risk of myopathy and rhabdomyolysis. (2.5, 7.1)
- Bile Acid Sequestrants: in patients taking a bile acid sequestrant, administer pravastatin sodium tablets at least 1 hour before or at least 4 hours after the bile acid sequestrant (7.2)

USE IN SPECIFIC POPULATIONS

- Pregnancy: May cause fetal harm (8.1)
- Lactation: Breastfeeding not recommended during treatment with pravastatin sodium tablets (8.2)

See 17 for PATIENT COUNSELING INFORMATION.

Revised: 8/2022

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

Pravastatin sodium tablets are indicated:

- To reduce the risk of myocardial infarction, myocardial revascularization procedures, and cardiovascular mortality in adults with elevated low-density lipoprotein cholesterol (LDL-C) without clinically evident coronary heart disease (CHD).
- To reduce the risk of coronary death, myocardial infarction, myocardial revascularization procedures, stroke or transient ischemic attack, and slow the progression of coronary atherosclerosis in adults with clinically evident CHD.
- As an adjunct to diet to reduce LDL-C in adults with primary hyperlipidemia.
- As an adjunct to diet to reduce LDL-C in pediatric patients ages 8 years and older with heterozygous familial hypercholesterolemia (HeFH).
- As an adjunct to diet for the treatment of adults with:
 - Primary dysbetalipoproteinemia.
 - Hypertriglyceridemia.

2 DOSAGE AND ADMINISTRATION

2.1 Important Dosage and Administration Information

- Take orally pravastatin sodium tablets once daily as a single dose at any time of the day, with or without food.
- For patients that require a high-intensity statin or are unable to achieve their LDL-C goal receiving pravastatin sodium tablets 80 mg daily, prescribe alternative LDL-Clowering treatment.
- Assess LDL-C when clinically appropriate, as early as 4 weeks after initiating pravastatin sodium tablets, and adjust the dosage if necessary.

2.2 Recommended Dosage in Adult Patients

The recommended starting dosage is pravastatin sodium tablets 40 mg to 80 mg once daily.

2.3 Recommended Dosage in Pediatric Patients 8 Years of Age and Older with HeFH

- In pediatric patients aged 8 to 13 years, the recommended dosage is pravastatin sodium tablets 20 mg once daily.
- In pediatric patients aged 14 to 18 years, the recommended starting dosage is pravastatin sodium tablets 40 mg once daily.

2.4 Recommended Dosage in Patients with Renal Impairment

- In patients with severe renal impairment, the recommended starting dosage is pravastatin sodium 10 mg once daily. The maximum recommended dosage of pravastatin sodium tablets in patients with severe renal impairment is 40 mg once daily [see Clinical Pharmacology (12.3)].
- The recommended dosage of pravastatin sodium tablets for patients with mild or moderate renal impairment is the same as patients with normal renal function.

2.5 Dosage and Administration Modifications Due to Drug Interactions

• In patients taking a bile acid sequestrant, administer pravastatin sodium tablets at least 1 hour before or 4 hours after the bile acid sequestrant [See Drug Interactions

(7.2)].

• Concomitant use of pravastatin sodium tablets with the following drugs requires dosage modifications of pravastatin sodium tablets[see Warnings and Precautions (5.1) and Drug Interactions (7.1)]:

• Cyclosporine

In patients taking cyclosporine, the recommended starting dosage is pravastatin sodium 10 mg once daily. The maximum recommended dosage of pravastatin sodium tablet in patients taking cyclosporine is 20 mg once daily.

• <u>Clarithromycin and Erythromycin</u>

The maximum recommended dosage is pravastatin sodium tablets 40 mg once daily.

3 DOSAGE FORMS AND STRENGTHS

Pravastatin Sodium Tablets, USP are supplied as:

10 mg tablets: Light pink, round, unscored tablets, imprinted "APO" on one side and "PRA" over "10" on the other side.

20 mg tablets: Off-white to light yellow, round, unscored tablets, imprinted "APO" on one side and "PRA" over "20" on the other side.

40 mg tablets: Light green, round, unscored tablets, imprinted "APO" on one side and "PRA" over "40" on the other side.

80 mg tablets: Off-white to light yellow, round, unscored tablets, imprinted "APO" on one side and "PRA" over "80" on the other side.

4 CONTRAINDICATIONS

- Acute liver failure or decompensated cirrhosis [see Warnings and Precautions (5.3)].
- Hypersensitivity to any pravastatin or any excipients in pravastatin sodium tablets.

5 WARNINGS AND PRECAUTIONS

5.1 Myopathy and Rhabdomyolysis

Pravastatin sodium tablets may cause myopathy and rhabdomyolysis. Acute kidney injury secondary to myoglobinuria and rare fatalities have occurred as a result of rhabdomyolysis in patients treated with statins, including pravastatin sodium tablets. Myopathy, defined as muscle aching or muscle weakness in conjunction with increases in creatine phosphokinase (CK) to greater than 10 times the upper limit of normal (ULN), occurred <0.1% in pravastatin sodium tablets-treated patients in clinical trials.

Risk Factors for Myopathy

Risk factors for myopathy include age 65 years or greater, uncontrolled hypothyroidism, renal impairment, concomitant use with certain other drugs (including other lipid-lowering therapies), and higher pravastatin sodium tablets dosage [see Drug Interactions (7.1)].

Steps to Prevent or Reduce the Risk of Myopathy and Rhabdomyolysis

Pravastatin sodium tablets are not recommended in patients taking gemfibrozil [see Drug Interactions (7)]. There are pravastatin sodium tablets dosage restrictions for patients taking cyclosporin and select macrolide antibiotics [see Dosage and Administration (2.5)]. The following drugs when used concomitantly with pravastatin sodium tablets may also increase the risk of myopathy and rhabdomyolysis: niacin, fibrates, and colchicine [see Drug Interactions (7)].

Discontinue pravastatin sodium tablets if markedly elevated CK levels occur or myopathy is diagnosed or suspected. Muscle symptoms and CK increases may resolve if

pravastatin sodium tablets is discontinued. Temporarily discontinue pravastatin sodium tablets in patients experiencing an acute or serious condition at high risk of developing renal failure secondary to rhabdomyolysis, e.g., sepsis; shock; severe hypovolemia; major surgery; trauma; severe metabolic, endocrine, or electrolyte disorders; or uncontrolled epilepsy.

Inform patients of the risk of myopathy and rhabdomyolysis when starting or increasing the pravastatin sodium tablets dosage. Instruct patients to promptly report any unexplained muscle pain, tenderness or weakness, particularly if accompanied by malaise or fever.

5.2 Immune-Mediated Necrotizing Myopathy

There have been rare reports of immune-mediated necrotizing myopathy (IMNM), an autoimmune myopathy, associated with statin use, including reports of recurrence when the same or a different statin was administered. IMNM is characterized by proximal muscle weakness and elevated serum creatine kinase that persist despite discontinuation of statin treatment; positive anti-HMG CoA reductase antibody; muscle biopsy showing necrotizing myopathy; and improvement with immunosuppressive agents. Additional neuromuscular and serologic testing may be necessary. Treatment with immunosuppressive agents may be required. Discontinue pravastatin sodium tablets if IMNM is suspected.

5.3 Hepatic Dysfunction

Increases in serum transaminases have been reported with use of pravastatin sodium tablets *[see Adverse Reactions (6.1)]*. In most cases, these changes appeared soon after initiation, were transient, were not accompanied by symptoms, and resolved or improved on continued therapy or after a brief interruption in therapy. Persistent increases to more than three times the ULN in serum transaminases have occurred in approximately 1% of patients receiving either pravastatin sodium tablets or placebo in clinical studies. Marked persistent increases of hepatic transaminases have also occurred with pravastatin sodium tablets. There have been rare postmarketing reports of fatal and non-fatal hepatic failure in patients taking statins, including pravastatin sodium tablets.

Patients who consume substantial quantities of alcohol and/or have a history of liver disease may be at increased risk for hepatic injury.

Consider liver enzyme testing before pravastatin sodium tablets initiation and when clinically indicated thereafter. Pravastatin sodium tablets are contraindicated in patients with acute liver failure or decompensated cirrhosis [see Contraindications (4)]. If serious hepatic injury with clinical symptoms and/or hyperbilirubinemia or jaundice occurs, promptly discontinue pravastatin sodium tablets.

5.4 Increases in HbA1c and Fasting Serum Glucose Levels

Increases in HbA1c and fasting serum glucose levels have been reported with statins, including pravastatin sodium tablets. Optimize lifestyle measures, including regular exercise, maintaining a healthy body weight, and making healthy food choices.

6 ADVERSE REACTIONS

The following important adverse reactions are described below and elsewhere in the labeling:

- Myopathy and Rhabdomyolysis [see Warnings and Precautions (5.1)]
- Immune-Mediated Necrotizing Myopathy [see Warnings and Precautions (5.2)]
- Hepatic Dysfunction [see Warnings and Precautions (5.3)]
- Increases in HbA1c and Fasting Serum Glucose Levels [see Warnings and Precautions (5.4)]

6.1 Clinical Trials Experience

Because clinical studies are conducted under widely varying conditions, adverse reaction rates observed in the clinical studies of a drug cannot be directly compared to rates in the clinical studies of another drug and may not reflect the rates observed in practice. In pravastatin sodium tablets placebo-controlled clinical trials, 1313 patients (age range 20 to 76 years, 32% women, 93.5% White, 5% Black, 0.9% Hispanic, 0.4% Asian, 0.2% Other) with a median treatment duration of 14 weeks, 3.3% of patients on pravastatin sodium tablets and 1.2% patients on placebo discontinued due to adverse reactions (regardless of causality). The most common adverse reactions that led to treatment discontinuation and occurred at an incidence greater than placebo were: hepatic transaminase elevations, nausea, anxiety/depression, and dizziness. Adverse reactions (regardless of causality) reported in $\geq 2\%$ of pravastatin sodium tablets-treated patients in placebo-controlled trials of up to 8 months duration are identified in Table 1:

Table 1: Adverse Reactions in $\ge 2\%$ of Patients Treated with Pravastatin (Any Dose) and at an Incidence Greater Than Placebo in Short-Term Placebo-Controlled Trials

	% Placebo N=411	% Any DoseN=902
Nausea/Vomiting	7.1	7.4
Diarrhea	5.6	6.7
Headache	4.6	6.3
Upper Respiratory Infection	5.8	5.9
Angina Pectoris	3.4	4.5
Rash	1.4	4.5
CPK Increased	3.6	4.1
Dizziness	3.4	3.5
ALT Increased	1.2	2.9
Chest Pain	1.9	2.7
Cough	1.7	2.5
Myalgia	1.2	2.3
Influenza	0.7	2.0
g-GT Increased	1.2	2.0

Adverse Reactions (regardless of causality)

The safety and tolerability of pravastatin sodium tablets at a dose of 80 mg in 2 controlled trials with a mean exposure of 8.6 months was similar to that of pravastatin sodium tablets at lower doses except that 4 out of 464 patients taking 80 mg of pravastatin had a single elevation of CK > 10 times ULN compared to 0 out of 115 patients taking 40 mg of pravastatin. In pravastatin sodium tablets placebo-controlled clinical trials, 21,483 patients (age range 24 to 75 years, 10.3% women, 52.3% White, 0.8% Black, 0.5% Hispanic, 0.1% Asian, 0.1% Other, 46.1% not recorded) had a median treatment duration of 261 weeks. Adverse reactions (regardless of causality) were pooled from 7 double-blind, placebo-controlled trials (West of Scotland Coronary Prevention Study [WOS]; Cholesterol and Recurrent Events study [CARE]; Long-term Intervention with Pravastatin in Ischemic Disease study [LIPID] · Pravastatin Limitation of Atherosclerosis in the Coronary Arteries study [PLAC I]; Pravastatin, Lipids and Atherosclerosis in the Carotids study [PLAC II]; Regression Growth Evaluation Statin Study [REGRESS]; and Kuopio Atherosclerosis Prevention Study [KAPS]) involving a total of 10.764 patients treated with pravastatin 40 mg and 10.719 patients treated with placebo. Patients were exposed to pravastatin for a mean of 4.0 to 5.1 years in WOS, CARE, and LIPID and 1.9 to 2.9 years in PLAC I, PLAC II, KAPS, and REGRESS. Adverse reactions (regardless of causality) occurring in \geq 5% of patients treated with pravastatin sodium tablets in these studies are identified in Table 2:

Table 2: Adverse Events in \geq 5% of Patients Treated with Pravastatin 40 mg and at an Incidence Greater Than Placebo in Long-Term Placebo-Controlled

Trials

	Placebo (N=10,719)% of patients	Pravastatin Sodium Tablets (N=10,764)% of patients
Musculoskeletal Pain	24.4	24.9
Upper Respiratory Tract Infection	20.2	21.2
Musculoskeletal Traumatism	9.6	10.2
Chest Pain	9.8	10.0
Influenza	9.0	9.2
Fatigue	7.8	8.4
Cough	7.4	8.2
Dizziness	6.6	7.3
Rash (including dermatitis)	7.1	7.2
Sinus Abnormality	6.7	7.0
Muscle Cramp	4.6	5.1

Adverse Reactions (regardless of causality)

No new adverse reactions were identified in a study of pediatric patients with HeFH.

Laboratory Abnormalities

Increases in ALT, AST values and CK have been observed.

Transient, asymptomatic eosinophilia has been reported. Eosinophil counts usually returned to normal despite continued therapy. Anemia, thrombocytopenia, and leukopenia have been reported with statins.

6.2 Postmarketing Experience

The following adverse reactions have been identified during postapproval use of pravastatin sodium tablets.

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.

Musculoskeletal: myopathy, rhabdomyolysis, tendon disorder, polymyositis, immunemediated necrotizing myopathy associated with statin use.

Nervous System: dysfunction of certain cranial nerves (including alteration of taste, impairment of extraocular movement, facial paresis), peripheral nerve palsy. Rare postmarketing reports of cognitive impairment (e.g., memory loss, forgetfulness, amnesia, memory impairment, confusion) associated with statin use. Cognitive impairment was generally nonserious, and reversible upon statin discontinuation, with variable times to symptom onset (1 day to years) and symptom resolution (median of 3 weeks).

Hypersensitivity: anaphylaxis, angioedema, lupus erythematosus-like syndrome, polymyalgia rheumatica, dermatomyositis, vasculitis, purpura, hemolytic anemia, positive ANA, ESR increase, arthritis, arthralgia, asthenia, photosensitivity, chills, malaise, toxic epidermal necrolysis, erythema multiforme (including Stevens-Johnson syndrome).

Gastrointestinal: abdominal pain, constipation, pancreatitis, hepatitis (including chronic active hepatitis), cholestatic jaundice, fatty change in liver, cirrhosis, fulminant hepatic necrosis, hepatoma, fatal and non-fatal hepatic failure.

Dermatologic: a variety of skin changes (e.g., nodules, discoloration, dryness of mucous membranes, changes to hair/nails), lichen planus.

Renal: urinary abnormality (including dysuria, frequency, nocturia).

Respiratory: dyspnea, interstitial lung disease.

Psychiatric: nightmare.

Reproductive: gynecomastia.

Laboratory Abnormalities: liver function test abnormalities, thyroid function abnormalities.

7 DRUG INTERACTIONS

7.1 Drug Interactions that Increase the Risk of Myopathy and Rhabdomyolysis with Pravastatin Sodium Tablets

Pravastatin sodium is a substrate of the transport protein OATP1B1. Pravastatin sodium plasma levels can be significantly increased with concomitant administration of inhibitors of OATP1B1. Table 3 includes a list of drugs that increase the risk of myopathy and rhabdomyolysis when used concomitantly with pravastatin sodium tablets and instructions for preventing or managing them [see Warnings and Precautions (5.1) and Clinical Pharmacology (12.3)].

Table 3: Drug Interactions that Increase the Risk of Myopathy and Rhabdomyolysis with Pravastatin Sodium Tablets

Gemfibrozil	
Clinical Impact:	There is an increased risk of myopathy/rhabdomyolysis when pravastatin sodium tablets are administered with gemfibrozil
Intervention:	Avoid concomitant use of gemfibrozil with pravastatin sodium tablets
Cyclosporine	
Clinical Impact:	The risk of myopathy and rhabdomyolysis is increased with concomitant use of cyclosporine with pravastatin sodium tablets.
Intervention:	Initiate with a dosage of pravastatin sodium 10 mg once daily. Do not exceed pravastatin sodium tablets 20 mg once daily [see Dosage and Administration (2.5)].
Select Macro	lide Antibiotics
Clinical Impact:	The risk of myopathy and rhabdomyolysis is increased by concomitant use of clarithromycin or erythromycin with pravastatin sodium tablets. Other macrolides (e.g., azithromycin) have the potential to increase pravastatin sodium tablets exposures and increase the risk of myopathy and rhabdomyolysis when used concomintantly.
Intervention:	For patients taking erythromycin or clarithromycin, do not exceed 40 mg pravastatin sodium tablets once daily [see Dosage and Administration (2.5)].
Niacin	
Clinical Impact:	Cases of myopathy and rhabdomyolysis have been observed with concomitant use of niacin with pravastatin sodium tablets.
Intervention:	Consider if the benefit of using niacin concomitantly with pravastatin sodium tablets outweighs the increased risk of myopathy and rhabdomyolysis. If concomitant use is decided, monitor patients for signs and symptoms of myopathy, particularly during initiation of therapy and during upward dose titration of either drug.
Fibrates (oth	er than Gemfibrozil)
-	Fibrates may cause myopathy when given alone. The risk of myopathy and rhabdomyolysis is increased with concomitant use of fibrates with pravastatin sodium tablets.
Intervention:	Consider if the benefit of using fibrates concomitantly with pravastatin sodium tablets outweighs the increased risk of myopathy and rhabdomyolysis. If concomitant use is

decided, monitor patients for signs and symptoms of myopathy, particularly during initiation of therapy and during upward dose titration of either drug.

Colchicine	
Clinical Impact:	Cases of myopathy and rhabdomyolysis have been reported with concomitant use of colchicine with pravastatin sodium tablets.
	Consider if the benefit of using colchicine concomitantly with pravastatin sodium
	tablets outweighs the increased risk of myopathy and rhabdomyolysis. If concomitant use is
	decided, monitor patients for signs and symptoms of myopathy, particularly during initiation of therapy and during upward dose titration of either drug.

7.2 Drug Interactions that Decrease the Efficacy of pravastatin sodium tablets

Table 4 presents drug interactions that may decrease the efficacy of pravastatin sodium tablets and instructions for preventing or managing them.

Table 4: Drug Interactions that Decrease the Efficacy of Pravastatin Sodium Tablets

Bile Acid Sequestrants		
	Concomitant cholestyramine or colestipol administration decreased the mean exposure of pravastatin approximately 51% and 47%, respectively [see Clinical Pharmacology (12.3)].	
Intervention:	In patients taking a bile acid sequestrant, administer pravastatin sodium tablets at least 1 hour before or at least 4 hours after the bile acid sequestrant [see Dosage and Administration (2.5)].	

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

<u>Risk Summary</u>

Discontinue pravastatin sodium tablets when pregnancy is recognized. Alternatively, consider the ongoing therapeutic needs of the individual patient. Pravastatin sodium tablets decreases synthesis of cholesterol and possibly other biologically active substances derived from cholesterol; therefore, pravastatin sodium tablets may cause fetal harm when administered to pregnant patients based on the mechanism of action [see Clinical Pharmacology (12.1)]. In addition, treatment of hyperlipidemia is not generally necessary during pregnancy. Atherosclerosis is a chronic process and the discontinuation of lipid-lowering drugs during pregnancy should have little impact on the outcome of long-term therapy of primary hyperlipidemia for most patients. Available data from case series and prospective and retrospective observational cohort studies over decades of use with statins in pregnant women have not identified a drugassociated risk of major congenital malformations. Published data from prospective and retrospective observational cohort studies with pravastatin sodium tablets use in pregnant women are insufficient to determine if there is a drug-associated risk of miscarriage (see Data). In animal reproduction studies, no evidence of fetal malformations was seen in pregnant rats or rabbits orally administered pravastatin during the period of organogenesis at doses that resulted in 10 times and 120 times, respectively, the human exposure at the maximum recommended human dose (MRHD) of 80 mg/day, based on body surface area (mg/m²). An imbalance in some fetal skeletal variations, increased offspring mortality, and developmental delays occurred when pregnant rats were exposed to 10 times to 12 times the MRHD during organogenesis to parturition (see Data).

The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2 to 4% and

<u>Data</u>

Human Data

A Medicaid cohort linkage study of 1152 statin-exposed pregnant women compared to 886,996 controls did not find a significant teratogenic effect from maternal use of statins in the first trimester of pregnancy, after adjusting for potential cofounders – including maternal age, diabetes mellitus, hypertension, obesity, and alcohol and tobacco use – using propensity score-based methods. The relative risk of congenital malformations between the group with statin use and the group with no statin use in the first trimester was 1.07 (95% confidence interval 0.85 to 1.37) after controlling for confounders, particularly pre-existing diabetes mellitus. There were also no statistically significant increases in any of the organ-specific malformations assessed after accounting for cofounders. In the majority of pregnancies, statin treatment was initiated prior to pregnancy and was discontinued at some point in the first trimester when pregnancy was identified. Study limitations include reliance on physician coding to define the presence of a malformation, lack of control for certain confounders such as body mass index, use of prescription dispensing as verification for the use of a statin, and lack of information on non-live births.

Animal Data

Embryofetal and neonatal mortality was observed in rats given pravastatin during the period of organogenesis or during organogenesis continuing through weaning. In pregnant rats given oral gavage doses of 4, 20, 100, 500, and 1,000 mg/kg/day from gestation days 7 through 17 (organogenesis) increased mortality of offspring and increased cervical rib skeletal anomalies were observed at \geq 100 mg/kg/day systemic exposure, 10 times the human exposure at 80 mg/day MRHD based on body surface area (mg/m²).

In other studies, no teratogenic effects were observed when pravastatin was dosed orally during organogenesis in rabbits (gestation days 6 through 18) up to 50 mg/kg/day or in rats (gestation days 7 through 17) up to 1,000 mg/kg/day. Exposures were 10 times (rabbit) or 120 times (rat) the human exposure at 80 mg/day MRHD based on body surface area (mg/m²). In pregnant rats given oral gavage doses of 10, 100, and 1,000 mg/kg/day from gestation day 17 through lactation day 21 (weaning), developmental delays were observed at \geq 100 mg/kg/day systemic exposure, corresponding to 12 times the human exposure at 80 mg/day MRHD, based on body surface area (mg/m²).

In pregnant rats, pravastatin crosses the placenta and is found in fetal tissue at 30% of the maternal plasma levels following administration of a single dose of 20 mg/day orally on gestation day 18, which corresponds to exposure 2 times the MRHD of 80 mg daily based on body surface area (mg/m²).

8.2 Lactation

<u>Risk Summary</u>

Based on one lactation study in published literature, pravastatin is present in human milk. There is no available information on the effects of the drug on the breastfed infant or the effects of the drug on milk production. Statins, including pravastatin sodium tablets, decrease cholesterol synthesis and possibly the synthesis of other biologically active substances derived from cholesterol and may cause harm to the breastfed infant.

Because of the potential for serious adverse reactions in a breastfed infant, based on the mechanism of action, advise patients that breastfeeding is not recommended during treatment with pravastatin sodium tablets [see Use in Specific Populations (8.1), Clinical Pharmacology (12.1)].

8.4 Pediatric Use

The safety and effectiveness of pravastatin sodium tablets as an adjunct to diet to

reduce LDL-C have been established in pediatric patients 8 years of age and older with HeFH. Use of pravastatin sodium tablets for this indication is based on a double-blind, placebo-controlled clinical study in 214 pediatric patients (100 males and 114 females) 8 years of age and older with HeFH. Doses greater than 40 mg daily have not been studied in this population.

The safety and effectiveness of pravastatin sodium tablets have not been established in pediatric patients younger than 10 years of age with HeFH or in pediatric patients with other types of hyperlipidemia (other than HeFH).

8.5 Geriatric Use

In clinical studies, 4,797 (36.4%) pravastatin sodium tablets-treated patients were aged 65 and older and 110 (0.8%) were aged 75 and older. No significant differences in efficacy or safety were observed between geriatric patients and younger patients.

Mean pravastatin AUCs are 25% to 50% higher in elderly subjects than in healthy young subjects, but mean maximum plasma concentration (C_{max}), time to maximum plasma concentration (T_{max}), and half-life ($t_{1/2}$) values are similar in both age groups and substantial accumulation of pravastatin would not be expected in the elderly [see Clinical Pharmacology (12.3)].

Advanced age (\geq 65 years) is a risk factor for pravastatin sodium tablets-associated myopathy and rhabdomyolysis. Dose selection for an elderly patient should be cautious, recognizing the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy and the higher risk of myopathy. Monitor geriatric patients receiving pravastatin sodium tablets for the increased risk of myopathy [see Warnings and Precautions (5.1)].

8.6 Renal Impairment

Renal impairment is a risk factor for myopathy and rhabdomyolysis. Monitor all patients with renal impairment for development of myopathy.

In patients with severe renal impairment, the recommended starting dose is pravastatin sodium 10 mg once daily. The maximum recommended dosage in patients with severe renal impairment is pravastatin sodium tablets 40 mg once daily. The recommended dosage for patients with mild or moderate renal impairment is the same as patients with normal renal function. [see Dosage and Administration (2.4), Warnings and Precautions (5.1), Clinical Pharmacology (12.3)].

8.7 Hepatic Impairment

Pravastatin sodium tablets shows a large inter-subject variability in pharmacokinetics in patients with liver cirrhosis [*Clinical Pharmacology (12.3)*]. Pravastatin sodium tablets are contraindicated in patients with acute liver failure or decompensated cirrhosis [see Contraindications (4), Warnings and Precautions (5.3)].

10 OVERDOSAGE

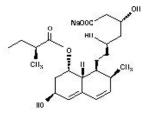
No specific antidotes for pravastatin sodium tablets are known. Contact Poison Control (1-800-222-1222) for latest recommendations.

11 DESCRIPTION

Pravastatin sodium is a statin, an inhibitor of 3-hydroxy-3-methylglutaryl-coenzyme A (HMG-CoA) reductase.

Pravastatin sodium is designated chemically as Sodium (3R,5R)-3,5-dihydroxy-7-[(1S,2S,6S,8S,8aR)-6-hydroxy-2-methyl-8-[[(2S)-methylbutanoyl]oxy]-1,2,6,7,8,8ahexahydronaphthalen-1-yl]heptanoate.

Structural Formula:



C₂₃H₃₅NaO₇ MW 446.52

Pravastatin sodium is an odorless, white to off-white, fine or crystalline powder. It is a relatively polar hydrophilic compound with a partition coefficient (octanol/ water) of 0.59 at a pH of 7.0. It is soluble in methanol and water (>300 mg/mL), slightly soluble in isopropanol, and practically insoluble in acetone, acetonitrile, chloroform, and ether.

Pravastatin sodium tablets for oral use contains 10 mg, 20 mg, 40 mg and 80mg pravastatin sodium. Inactive ingredients include: croscarmellose sodium, lactose monohydrate, magnesium stearate and microcrystalline cellulose. The 10 mg tablet also contains Red Ferric Oxide, the 20 mg tablet also contains Yellow Ferric Oxide, the 40 mg tablet also contains a blend of Yellow Ferric Oxide and FD&C Blue #1 Aluminum Lake, and the 80 mg tablet also contains Yellow Ferric Oxide.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Pravastatin is a reversible inhibitor of HMG-CoA reductase, the rate-limiting enzyme that converts HMG-CoA to mevalonate, a precursor of cholesterol.

12.2 Pharmacodynamics

Inhibition of HMG-CoA reductase by pravastatin accelerates the expression of LDLreceptors, followed by the uptake of LDL-C from blood to the liver, leading to a decrease in plasma LDL-C and total cholesterol. Sustained inhibition of cholesterol synthesis in the liver also decreases levels of very-low-density lipoproteins. The maximum LDL-C reduction of pravastatin is usually achieved by 4 weeks and is maintained after that.

12.3 Pharmacokinetics

Absorption

Pravastatin sodium is administered orally in the active form. Peak plasma pravastatin concentrations occurred 1 to 1.5 hours upon oral administration. Based on urinary recovery of total radiolabeled drug, the average oral absorption of pravastatin is 34% and absolute bioavailability is 17%. While the presence of food in the gastrointestinal tract reduces area under the concentration-time curve (AUC) and C_{max} by 31% and 49%, respectively, the lipid-lowering effects of the drug are similar whether taken with or 1 hour prior to meals.

Pravastatin plasma concentrations, including AUC, C_{max} , and steady-state minimum (C_{min}), are directly proportional to administered dose. Systemic bioavailability of pravastatin administered following a bedtime dose was decreased 60% compared to that following an AM dose. Despite this decrease in systemic bioavailability, the efficacy of pravastatin administered once daily in the evening, although not statistically significant, was marginally more effective than that after a morning dose.

The coefficient of variation (CV), based on between-subject variability, was 50% to 60% for AUC. The geometric means of pravastatin C_{max} and AUC following a 20 mg dose in the fasted state were 26.5 ng/mL and 59.8 ng*hr/mL, respectively.

Steady-state AUCs, C_{max} , and C_{min} plasma concentrations showed no evidence of pravastatin accumulation following once or twice daily administration of pravastatin

sodium tablets.

<u>Distribution</u>

Approximately 50% of the circulating drug is bound to plasma proteins.

<u>Elimination</u>

Metabolism

The major biotransformation pathways for pravastatin are: (a) isomerization to 6-epi pravastatin and the 3α -hydroxyisomer of pravastatin (SQ 31,906) and (b) enzymatic ring hydroxylation to SQ 31,945. The 3α -hydroxyisomeric metabolite (SQ 31,906) has 1/10 to 1/40 the HMG-CoA reductase inhibitory activity of the parent compound. Pravastatin undergoes extensive first-pass extraction in the liver (extraction ratio 0.66).

Excretion

Approximately 20% of a radiolabeled oral dose is excreted in urine and 70% in the feces. After intravenous administration of radiolabeled pravastatin to normal volunteers, approximately 47% of total body clearance was via renal excretion and 53% by nonrenal routes (i.e., biliary excretion and biotransformation).

Following single dose oral administration of ¹⁴C-pravastatin, the radioactive elimination $t_{\frac{1}{2}}$ for pravastatin is 1.8 hours in humans and the elimination half-life ($t_{\frac{1}{2}}$) for total radioactivity (pravastatin plus metabolites) is 77 hours.

Specific Populations

Renal Impairment

A single 20 mg oral dose of pravastatin was administered to 24 patients with varying degrees of renal impairment (as determined by creatinine clearance). No effect was observed on the pharmacokinetics of pravastatin or its 3 α -hydroxy isomeric metabolite (SQ 31,906). Compared to healthy subjects with normal renal function, patients with severe renal impairment had 69% and 37% higher mean AUC and C_{max} values, respectively, and a 0.61 hour shorter t_{1/2} for the inactive enzymatic ring hydroxylation metabolite (SQ 31,945) [see Use in Specific Populations (8.6)].

Hepatic Impairment

In a study comparing the kinetics of pravastatin in patients with biopsy confirmed cirrhosis (N=7) and normal subjects (N=7), the mean AUC varied 18-fold in cirrhotic patients and 5-fold in healthy subjects. Similarly, the peak pravastatin values varied 47-fold for cirrhotic patients compared to 6-fold for healthy subjects [see Use in Specific Populations (8.6)].

Geriatric

In a single oral dose study using pravastatin 20 mg, the mean AUC for pravastatin was approximately 27% greater and the mean cumulative urinary excretion (CUE) approximately 19% lower in elderly men (65 to 75 years old) compared with younger men (19 to 31 years old). In a similar study conducted in women, the mean AUC for pravastatin was approximately 46% higher and the mean CUE approximately 18% lower in elderly women (65 to 78 years old) compared with younger women (18 to 38 years old). In both studies, C_{max} , T_{max} , and $t_{\frac{1}{2}}$ values were similar in older and younger subjects [see Use in Specific Populations (8.5)].

Pediatric

After 2 weeks of once-daily 20 mg oral pravastatin administration, the geometric means of AUC were 80.7 (CV 44%) and 44.8 (CV 89%) ng*hr/mL for pediatric patients 8 to 11 years (N=14) and 12 to 16 years (N=10), respectively. The corresponding values for C_{max} were 42.4 (CV 54%) and 18.6 ng/mL (CV 100%) for pediatric patients 8 to 11 years and 12 to 16 years, respectively. No conclusion can be made based on these findings due to the small number of samples and large variability [see *Use in Specific Populations (8.4)*].

Table 5: Effect of Coadministered Drugs on the Pharmacokinetics of Pravastatin

Coadministered Drug and	Pravastatin			
Dosing Regimen	Dose (mg) Change in AUC Change in			
Cyclosporine 5 mg/kg single dose	40 mg single dose	↑282%	↑327%	
Clarithromycin 500 mg BID for 9 days	40 mg OD for 8 days	110%	128%	
Boceprevir 800 mg TID for 6 days	40 mg single dose	163%	149%	
Darunavir 600 mg BID/Ritonavir 100 mg BID for 7 days		181%	163%	
Colestipol 10 g single dose	20 mg single dose	↓47%	↓53%	
Cholestyramine 4 g single dose	20 mg single	1.400/	1.20%	
Administered simultaneously	dose	↓40%	↓39%	
Administered 1 hour prior to		12%	130%	
cholestyramine Administered 4 hours after cholestyramine		↓12%	↓6.8%	
Cholestyramine 24 g OD for 4 weeks	20 mg BID for 8 weeks	↓51%	14.9%	
	5 mg BID for 8 weeks	↓38%	123%	
	10 mg BID for 8 weeks	↓18%	↓33%	
Fluconazole 200 mg IV for 6 days	20 mg PO+10 mg IV	↓34%	↓33%	
200 mg PO for 6 days	20 mg PO+10 mg IV	↓16%	↓16%	
Kaletra 400 mg/100 mg BID for 14 days	20 mg OD for 4 days	133%	126%	
Verapamil IR 120 mg for 1 day and Verapamil ER 480 mg for 3 days	40 mg single dose	↑31%	142%	
Cimetidine 300 mg QID for 3 days	20 mg single dose	130%	19.8%	
Antacids 15 mL QID for 3 days	20 mg single dose	↓28%	↓24%	
Digoxin 0.2 mg OD for 9 days	20 mg OD for 9 days	<u></u> 123%	126%	
Probucol 500 mg single dose	20 mg single dose	14%	124%	
Warfarin 5 mg OD for 6 days	20 mg BID for 6 days	↓13%	16.7%	
Itraconazole 200 mg OD for 30 days	40 mg OD for 30 days	↑11% (compared to Day 1)	↑17% (compared to Day 1)	
Gemfibrozil 600 mg single dose	20 mg single dose	↓7.0%	↓20%	
Aspirin 324 mg single dose	20 mg single dose	14.7%	18.9%	
Niacin 1 g single dose	20 mg single dose	↓3.6%	↓8.2%	
Diltiazem	20 mg single dose	12.7%	130%	
Grapefruit juice	40 mg single	↓1.8%	13.7%	

		dose		
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BID = twice daily; OD = once daily; QID = four times daily

Table 6: Effect of Pravastatin on the Pharmacokinetics of Coadministered Drugs

Pravastatin Dosing Regimen	Name and Dose	Change in AUC	Change in C _{max}
20 mg BID for 6 days	Warfarin 5 mg OD for 6 days Change in mean prothrombin time	↑17%↑0.4 sec	15%
20 mg OD for 9 days	Digoxin 0.2 mg OD for 9 days	↑4.6%	15.3%
20 mg BID for 4 weeks 10 mg BID for 4 weeks 5 mg BID for 4 weeks	Antipyrine 1.2 g single dose	↑3.0%↑1.6%↑Less than 1%	Not Reported
20 mg OD for 4 days	Kaletra 400 mg/100 mg BID for 14 days	No change	No change

BID = twice daily; OD = once daily

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

In a 2-year study in rats fed pravastatin at doses of 10, 30, or 100 mg/kg body weight, there was an increased incidence of hepatocellular carcinomas in males at the highest dose (p<0.01). These effects in rats were observed at approximately 12 times the human dose (HD) of 80 mg based on body surface area (mg/m²) and at approximately 4 times the HD, based on AUC.

In a 2-year study in mice fed pravastatin at doses of 250 and 500 mg/kg/day, there was an increased incidence of hepatocellular carcinomas in males and females at both 250 and 500 mg/kg/day (p<0.0001). At these doses, lung adenomas in females were increased (p=0.013). These effects in mice were observed at approximately 15 times (250 mg/kg/day) and 23 times (500 mg/kg/day) the HD of 80 mg, based on AUC. In another 2-year study in mice with doses up to 100 mg/kg/day (producing drug exposures approximately 2 times the HD of 80 mg, based on AUC), there were no druginduced tumors.

No evidence of mutagenicity was observed *in vitro*, with or without rat-liver metabolic activation, in the following studies: microbial mutagen tests, using mutant strains of *Salmonella typhimurium* or *Escherichia coli*; a forward mutation assay in L5178Y TK +/– mouse lymphoma cells; a chromosomal aberration test in hamster cells; and a gene conversion assay using *Saccharomyces cerevisiae*. In addition, there was no evidence of mutagenicity in either a dominant lethal test in mice or a micronucleus test in mice.

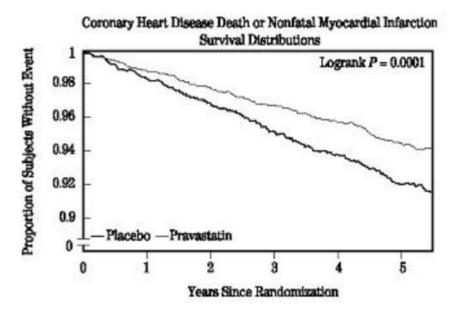
In a fertility study in adult rats with daily doses up to 500 mg/kg, pravastatin did not produce any adverse effects on fertility or general reproductive performance. No adverse effects were seen in juvenile rats dosed with 5 mg/kg/day pravastatin (5 times plasma exposure at the maximum recommended human dose [MRHD] of 80 mg based on AUC) in a study of pravastatin administered from postnatal days (PND) 4 through 80 at 5, 15 and 45 mg/kg/day. A PND 4 rat is generally comparable to a 3rd trimester human fetus with regards to neurologic development/myelination. At \geq 15 mg/kg/day (\geq 20 times the MRHD), decreased body-weight gain was observed during the pre-weaning period and slight thinning of the corpus callosum was observed at the end of the drugfree recovery period (PND 132). Thinning of the corpus callosum was not associated with any inflammatory or degenerative changes in the brain. Impacts on neurobehavioral and learning endpoints were detected only at very high exposures (43 times the MRHD). No thinning of the corpus callosum was observed in rats dosed with pravastatin for 3 months beginning on PND 35 at \geq 250 mg/kg/day. PND 35 in a rat is approximately equivalent to an 8 to 12-year-old human child.

14 CLINICAL STUDIES

Prevention of Coronary Heart Disease

In the Pravastatin Primary Prevention Study (WOS), the effect of pravastatin sodium on fatal and nonfatal CHD was assessed in 6,595 male patients 45 to 64 years of age, without a previous MI, and with LDL-C levels between 156 to 254 mg/dL. In this randomized, double-blind, placebo-controlled study, patients were treated with standard care, including dietary advice, and either pravastatin sodium 40 mg daily (N=3,302) or placebo (N=3,293) and followed for a median duration of 4.8 years. Median (25th, 75th percentile) percent changes from baseline after 6 months of pravastatin treatment in Total-C, LDL-C, TG, and HDL-C were -20.3 (-26.9, -11.7), -27.7 (-36.0, -16.9), -9.1 (-27.6, 12.5), and 6.7 (-2.1, 15.6), respectively.

Pravastatin sodium significantly reduced the rate of first coronary events (either CHD death or nonfatal MI) by 31% (248 events in the placebo group [CHD death=44, nonfatal MI=204] versus 174 events in the pravastatin sodium group [CHD death=31, nonfatal MI=143], p=0.0001 [see figure below]). The risk reduction with pravastatin sodium was similar across the age range studied and throughout the range of baseline LDL cholesterol levels.



Pravastatin sodium also decreased the risk for undergoing myocardial revascularization procedures (coronary artery bypass graft [CABG] surgery or percutaneous transluminal coronary angioplasty [PTCA]) by 37% (80 vs 51 patients.) Cardiovascular deaths were decreased by 32% (73 vs 50) and there was no increase in death from non-cardiovascular causes.

Secondary Prevention of Cardiovascular

Events In the LIPID study, the effect of pravastatin sodium tablets, 40 mg daily, was assessed in 9,014 patients (7,498 men; 1,516 women; 3,514 patients \geq 65 years; 782 patients with diabetes) who had experienced either an MI (5,754 patients) or had been hospitalized for unstable angina pectoris (3,260 patients) in the preceding 3 to 36 months. Patients in this multicenter, double-blind, placebo-controlled study participated for an average of 5.6 years (median of 5.9 years) and at randomization had Total-C

between 114 and 563 mg/dL (mean 219 mg/dL), LDL-C between 46 and 274 mg/dL (mean 150 mg/dL), TG between 35 and 2710 mg/dL (mean 160 mg/dL), and HDL-C between 1 and 103 mg/dL (mean 37 mg/dL). At baseline, 82% of patients were receiving aspirin and 76% were receiving antihypertensive medication. Treatment with pravastatin sodium tablets significantly reduced the risk for total mortality by reducing coronary death (see Table 7). The risk reduction due to treatment with pravastatin sodium tablets on CHD mortality was consistent regardless of age. Pravastatin sodium tablets significantly reduced the risk for total mortality (by reducing CHD death) and CHD events (CHD mortality or nonfatal MI) in patients who qualified with a history of either MI or hospitalization for unstable angina pectoris.

	Number (%) of Subjec	ts		
Event	Pravastatin 40 mg (N=4512)	Placebo (N=4502)	Risk Reduction	p-value
Primary Endpoint		·	·	
CHD mortality	287 (6.4)	373 (8.3)	24%	0.0004
Secondary Endpoints	·	·	·	
Total mortality	498 (11.0)	633 (14.1)	23%	< 0.0001
CHD mortality or nonfatal MI	557 (12.3)	715 (15.9)	24%	< 0.0001
Myocardial revascularization procedures (CABG or PTCA)	584 (12.9)	706 (15.7)	20%	<0.0001
Stroke			·	
All-cause	169 (3.7)	204 (4.5)	19%	0.0477
Non-hemorrhagic	154 (3.4)	196 (4.4)	23%	0.0154
Cardiovascular mortality	331 (7.3)	433 (9.6)	25%	< 0.0001

Table 7: LIPID - Primary and Secondary Endpoints

In the CAREstudy, the effect of pravastatin sodium tablets, 40 mg daily, on CHD death and nonfatal MI was assessed in 4,159 patients (3,583 men and 576 women) who had experienced a MI in the preceding 3 to 20 months and who had normal (below the 75th percentile of the general population) plasma total cholesterol levels. Patients in this double-blind, placebo-controlled study participated for an average of 4.9 years and had a mean baseline Total-C of 209 mg/dL. LDL-C levels in this patient population ranged from 101 to 180 mg/dL (mean 139 mg/dL). At baseline, 84% of patients were receiving aspirin and 82% were taking antihypertensive medications. Median (25th, 75th percentile) percent changes from baseline after 6 months of pravastatin treatment in Total-C, LDL-C, TG, and HDL-C were -22.0 (-28.4, -14.9), -32.4 (-39.9, -23.7), -11.0 (-26.5, 8.6), and 5.1 (-2.9, 12.7), respectively. Treatment with pravastatin sodium tablets significantly reduced the rate of first recurrent coronary events (either CHD death or nonfatal MI), the risk of undergoing revascularization procedures (PTCA, CABG), and the risk for stroke or TIA (see Table 8).

Table 8: CARE - Primary and Secondary Endpoints

Number (%) of Subjects				
Event	Pravastatin 40 mg (N=2,081)	Placebo (N=2,078)	Risk Reduction	p- value
Primary Endpoint				
CHD mortality or nonfatal MI ^a	212 (10.2)	274 (13.2)	24%	0.003
Secondary Endpoints				
Myocardial revascularization procedures (CABG or PTCA)	294 (14.1)	391 (18.8)	27%	<0.001
Stroke or TIA	93 (4.5)	124 (6.0)	26%	0.029

^a The risk reduction due to treatment with pravastatin sodium was consistent in both

sexes.

Primary Hyperlipidemia

In multicenter, double-blind, placebo-controlled studies of patients with primary hyperlipidemia, treatment with pravastatin sodium tablets in daily doses ranging from 10 to 40 mg consistently and significantly decreased Total-C, LDL-C, and TG (see Table 9).

In a pooled analysis of 2 multicenter, double-blind, placebo-controlled studies of patients with primary hyperlipidemia, treatment with pravastatin at a daily dose of 80 mg (N=277) significantly decreased Total-C, LDL-C, and TG. The 25^{th} and 75^{th} percentile changes from baseline in LDL-C for pravastatin 80 mg were -43% and -30%. The efficacy results of the individual studies were consistent with the pooled data (see Table 9).

Table 9: Primary Hyperlipidemia Trials Dose Response of Pravastatin SodiumOnce Daily Administration

Dose	Total-C	LDL-C	HDL-C	TG
Mean Percent Chang	ges From l	Baseline	After 8 V	Veeksa
Placebo (N=36)	-3%	-4%	+1%	-4%
10 mg (N=18)	-16%	-22%	+7%	-15%
20 mg (N=19)	-24%	-32%	+2%	-11%
40 mg (N=18)	-25%	-34%	+12%	-24%
Mean Percent Changes From Baseline After 6 Weeks ^b				
Placebo (N=162)	0%	-1%	-1%	+1%
80 mg (N=277)	-27%	-37%	+3%	-19%

^a A multicenter, double-blind, placebo-controlled study.

^b Pooled analysis of 2 multicenter, double-blind, placebo-controlled studies.

<u>Dysbetalipoproteinemia</u>

The response to pravastatin in two double-blind crossover studies of 46 patients with genotype E2/E2 and dysbetalipoproteinemia is shown in Table 11.

Table 11: Patients with Dysbetalipoproteinemia Median (min, max) % Change from Baseline

Median (min, max) at Baseline	Median % Change (min, max) Pravastatin 40
(mg/dL)	mg (N=20)
386.5 (245.0, 672.0)	-32.7 (-58.5, 4.6)
443.0 (275.0, 1299.0)	-23.7 (-68.5, 44.7)
206.5 (110.0, 379.0)	-43.8 (-73.1, -14.3)
117.5 (80.0, 170.0)	-40.8 (-63.7, 4.6)
30.0 (18.0, 88.0)	6.4 (-45.0, 105.6)
344 5 (215 0 646 0)	-36.7 (-66.3, 5.8)
544.5 (215.0; 040.0)	-50.7 (-60.5, 5.6)
Median (min, max) at Baseline	Median % Change (min, max) Pravastatin 40
(mg/dL)	mg (N=26)
340.3 (230.1, 448.6)	-31.4 (-54.5, -13.0)
343.2 (212.6, 845.9)	-11.9 (-56.5, 44.8)
145.0 (71.5, 309.4)	-35.7 (-74.7, 19.1)
128.6 (63.8, 177.9)	-30.3 (-52.2, 13.5)
	(mg/dL) 386.5 (245.0, 672.0) 443.0 (275.0, 1299.0) 206.5 (110.0, 379.0) 117.5 (80.0, 170.0) 30.0 (18.0, 88.0) 344.5 (215.0, 646.0) Median (min, max) at Baseline (mg/dL) 340.3 (230.1, 448.6) 343.2 (212.6, 845.9) 145.0 (71.5, 309.4)

HDL-C	38.7 (27.1, 58.0)	5.0 (-17.7, 66.7)
Non- HDL-C	295.8 (195.3, 421.5)	-35.5 (-81.0, -13.5)

HeFH in Pediatric Patients Aged 8 Years and Above

A double-blind, placebo-controlled study in 214 pediatric patients (100 males and 114 females) with heterozygous familial hypercholesterolemia (HeFH), aged 8 to 18 years was conducted for 2 years. The pediatric patients aged 8 to 13 years were randomized to placebo (N=63) or 20 mg of pravastatin daily (N=65) and the pediatric patients aged 14 to 18 years were randomized to placebo (N=45) or 40 mg of pravastatin daily (N=41). Inclusion in the study required an LDL-C level >95th percentile for age and sex and one parent with either a clinical or molecular diagnosis of familial hypercholesterolemia. The mean baseline LDL-C value was 239 mg/dL and 237 mg/dL in the pravastatin (range: 151 to 405 mg/dL) and placebo (range: 154 to 375 mg/dL) groups, respectively.

Pravastatin significantly decreased plasma levels of LDL-C, Total-C, and ApoB in both pediatric age groups (see Table 12). The effect of pravastatin treatment in the 2 age groups was similar.

Table 12: Lipid-Lowering Effects of Pravastatin in Pediatric Patients with Heterozygous Familial Hypercholesterolemia: Least-Squares Mean % Change from Baseline at Month 24 (Last Observation Carried Forward: Intent-to-Treat)^a

	-	mg(Aged 14	CombinedPravastatin	CombinedPlacebo(Aged 8 to 18years)N=108	95% CI of the Difference Between Combined Pravastatin and Placebo
LDL-C	-26.04 ^b	-21.07 ^b	-24.07 ^b	-1.52	(-26.74, - 18.86)
тс	-20.75 ^b	-13.08 ^b	-17.72 ^b	-0.65	(-20.40, - 13.83)
HDL-C	1.04	13.71	5.97	3.13	(-1.71, 7.43)
TG	-9.58	-0.30	-5.88	-3.27	(-13.95, 10.01)
ApoB (N)	-23.16 ^b (61)	-18.08 ^b (39)	-21.11 ^b (100)	-0.97 (106)	(-24.29, - 16.18)

^a The above least-squares mean values were calculated based on log-transformed lipid values.

^b Significant at $p \le 0.0001$ when compared with placebo.

The mean achieved LDL-C was 186 mg/dL (range: 67 to 363 mg/dL) in the pravastatin group k to 236 mg/dL (range: 105 to 438 mg/dL) in the placebo group.

16 HOW SUPPLIED/STORAGE AND HANDLING

16.1 How Supplied

Pravastatin Sodium Tablets, USP 10 mg are available for oral administration as light pink, round, unscored tablets, imprinted "APO" on one side and "PRA" over "10" on the other side. They are supplied as follows:

Bottles of 90 (NDC 60505-0168-9) Bottles of 100 (NDC 60505-0168-1) Bottles of 500 (NDC 60505-0168-5) Bottles of 1,000 (NDC 60505-0168-7)

Pravastatin Sodium Tablets, USP 20 mg are available for oral administration as off-white to light yellow, round, unscored tablets, imprinted "APO" on one side and "PRA" over "20" on the other side. They are supplied as follows:

Bottles of 90 (NDC 60505-0169-9) Bottles of 100 (NDC 60505-0169-1) Bottles of 500 (NDC 60505-0169-5) Bottles of 1,000 (NDC 60505-0169-7)

Pravastatin Sodium Tablets, USP 40 mg are available for oral administration as light green, round, unscored tablets, imprinted "APO" on one side and "PRA" over "40" on the other side. They are supplied as follows:

Bottles of 90 (NDC 60505-0170-9) Bottles of 100 (NDC 60505-0170-1) Bottles of 500 (NDC 60505-0170-5) Bottles of 1,000 (NDC 60505-0170-7)

Pravastatin Sodium Tablets, USP 80 mg are available for oral administration as off-white to light yellow, round, unscored tablets, imprinted "APO" on one side and "PRA" over "80" on the other side. They are supplied as follows:

Bottles of 90 (NDC 60505-1323-9) Bottles of 100 (NDC 60505-1323-1) Bottles of 500 (NDC 60505-1323-5) Bottles of 1,000 (NDC 60505-1323-7)

Store at 20°C to 25°C (68°F to 77°F); excursions permitted to 15°C to 30°C (59°F to 86°F). [See USP Controlled Room Temperature]. Dispense in a tight, light-resistant container [see USP]. Protect from light and moisture.

17 PATIENT COUNSELING INFORMATION

Myopathy and Rhabdomyolysis

Advise patients that pravastatin sodium tablets may cause myopathy and rhabdomyolysis. Inform patients that the risk is increased when taking certain types of medication and they should discuss all medication, both prescription and over the counter, with their healthcare provider. Instruct patients to promptly report any unexplained muscle pain, tenderness or weakness particularly if accompanied by malaise or fever [see Warnings and Precautions (5.1), Drug Interactions (7.1)].

Hepatic Dysfunction

Inform patients that pravastatin sodium tablets may cause liver enzyme elevations and possibly liver failure. Advise patients to promptly report fatigue, anorexia, right upper abdominal discomfort, dark urine or jaundice [see Warnings and Precautions (5.3)].

Increases in HbA1c and Fasting Serum Glucose Levels

Inform patients that increases in HbA1c and fasting serum glucose levels may occur with pravastatin sodium tablets. Encourage patients to optimize lifestyle measures, including regular exercise, maintaining a healthy body weight, and making healthy food choices [see Warnings and Precautions (5.4)].

Pregnancy

Advise pregnant patients and patients who may become pregnant of the potential risk to a fetus. Advise patients to inform their healthcare provider of a known or suspected pregnancy to discuss if pravastatin sodium tablets should be discontinued [see Use in Specific Populations (8.1)].

Lactation

Advise patients that breastfeeding is not recommended during treatment with pravastatin sodium tablets [see Use in Specific Populations (8.2)].

APOTEX INC. PRAVASTATIN SODIUM TABLETS, USP 10 mg, 20 mg, 40 mg and 80 mg

Manufactured by	Manufactured for
Apotex Inc.	Apotex Corp.
Toronto, Ontario	Weston, Florida
Canada M9L 1T9	33326

Rev. 13

Representative sample of labeling (see **HOW SUPPLIED** section for complete listing):

PRINCIPAL DISPLAY PANEL - 10 mg BOTTLE

APOTEX CORP. NDC 60505-0168-9

Pravastatin Sodium Tablets, USP

10 mg

Rx

90 bottle count



Representative sample of labeling (see **HOW SUPPLIED** section for complete listing):

PRINCIPAL DISPLAY PANEL - 20 mg BOTTLE

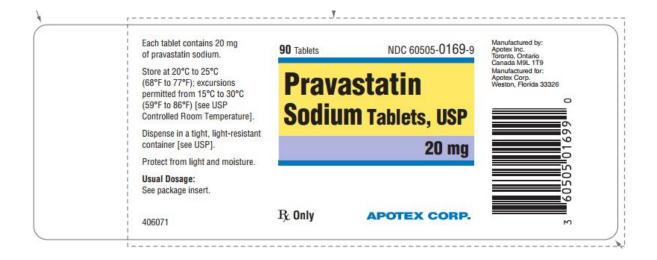
APOTEX CORP. NDC 60505-0169-9

Pravastatin Sodium Tablets, USP

20 mg

Rx

90 bottle count



Representative sample of labeling (see **HOW SUPPLIED** section for complete listing):

PRINCIPAL DISPLAY PANEL - 40 mg BOTTLE

APOTEX CORP. NDC 60505-0170-9

Pravastatin Sodium Tablets, USP

40 mg

Rx

90 bottle count



PRINCIPAL DISPLAY PANEL- 80 mg BOTTLE

Representative sample of labeling (see **HOW SUPPLIED** section for complete listing):

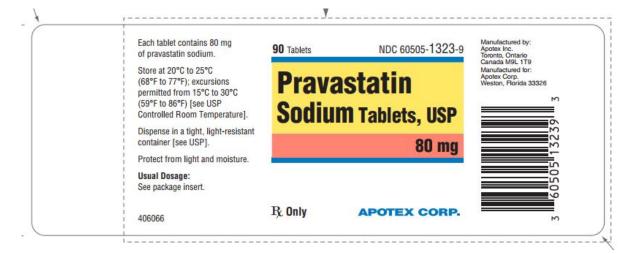
APOTEX CORP. NDC 60505-1323-9

Pravastatin Sodium Tablets, USP

80 mg

Rx

90 bottle count



PRAVASTATIN SODIUM pravastatin sodium tablet **Product Information** NDC:60505-0168 HUMAN PRESCRIPTION DRUG **Product Type** Item Code (Source) **Route of Administration** ORAL **Active Ingredient/Active Moiety Ingredient Name Basis of Strength Strength** Pravastatin Sodium (UNII: 3M8608UQ61) (Pravastatin - UNII:KXO2KT9N0G) Pravastatin Sodium 10 mg **Inactive Ingredients Ingredient Name** Strength CROSCARMELLOSE SODIUM (UNII: M28OL1HH48) LACTOSE MONOHYDRATE (UNII: EW05708I5X) MAGNESIUM STEARATE (UNII: 70097M6I30) MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U) FERRIC OXIDE RED (UNII: 1K09F3G675) **Product Characteristics** Color PINK Score no score Shape ROUND Size 6mm Flavor **Imprint Code** APO;PRA;10 Contains Packaging **Marketing Start** Marketing End **Item Code Package Description** # Date Date 90 in 1 BOTTLE; Type 0: Not a Combination NDC:60505-07/18/2011 1 0168-9 Product NDC:60505-100 in 1 BOTTLE; Type 0: Not a Combination 07/18/2011 2 0168-1 Product

07/18/2011

07/18/2011

07/18/2011

500 in 1 BOTTLE; Type 0: Not a Combination

1000 in 1 BOTTLE; Type 0: Not a Combination

40000 in 1 BOTTLE; Type 0: Not a Combination

NDC:60505-

NDC:60505-

NDC:60505-

Product

Product

Product

0168-5

0168-7

0168-4

3

4

5

Marketing Information						
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date			
ANDA	ANDA076341	07/18/2011				

	PRAVASTATIN SODIUM							
pra	avastatin sodiu	ım tablet						
P	roduct Infor	mation						
P	roduct Type	HUMAN PRESCRIPTION DRUG Item Code (Source)					NDC:6	0505-0169
R	oute of Admin	istration	ORAL					
	Active Ingredient/Active Moiety							
A	ctive Ingred	ient/Active	e Moiety					
						Basis of St	•	-
Pr	avastatin Sodiu	im (UNII: 3M86	508UQ61) (Prava	astatin - UNII:KXO2KT	⁻ 9N0G)	Pravastatin So	dium	20 mg
Ir	active Ingre	edients						
			Ingredie	nt Name			St	rength
С	ROSCARMELLOS	E SODIUM (U	-					
-	стоѕе молон							
M	AGNESIUM STEA	ARATE (UNII: 7	/0097M6I30)					
м	CROCRYSTALLI	NE CELLULOS	SE (UNII: OP1R3	2D61U)				
FE	RRIC OXIDE YE	LLOW (UNII: E	X43802MRT)					
P	roduct Chara	actoristics	-					
	olor	YELL		Score		no sco	re	
	nape	ROU		Size		7mm		
	avor			Imprint Code APO;PRA			A;20	
Co	ontains							
_								
P	ackaging							
#	ltem Code	P	ackage Deso	cription		ting Start Date		ting End Date
1	NDC:60505- 0169-9	90 in 1 BOTT Product	LE; Type 0: Not	a Combination	07/18/201	1		
2	NDC:60505- 0169-1		TLE; Type 0: No	t a Combination	07/18/201	1		
3	NDC:60505- 0169-5	500 in 1 BOTTLE; Type 0: Not a Combination 07/18/2011						
4	NDC:60505- 0169-7	Product 07/18/2011 1000 in 1 BOTTLE; Type 0: Not a Combination Product 07/18/2011						
5	NDC:60505- 0169-2	20000 in 1 BOTTLE; Type 0: Not a Combination Product 07/18/2011						
M	larketing	Informa	tion					
	Marketing Category			r or Monograph on		eting Start Date		eting End Date
AN	IDA	ANDA0763			07/18/20			

Product Info	rmatior	ı					
Product Type	HUMAN PRESCRIPTION DRUG Item Code (Source)				NDC:6	0505-0170	
Route of Admin	te of Administration ORAL						
Active Ingred	ient/Ac	tive Moiety					
Ingredient Name					Basis of Strength Stre		
Pravastatin Sodi	um (UNII: 1	3M8608UQ61) (Prav	vastatin - UNII:KXO2K	r9N0G)	Pravastatin So	dium	40 mg
Inactive Ingre	edients						
		Ingredie	ent Name			St	rength
CROSCARMELLOS	SE SODIU	M (UNII: M280L1HF	148)				
		(UNII: EWQ57Q8I5X)				
MAGNESIUM STE	•		2206111)				
FD&C BLUE NO. 1		ULOSE (UNII: OP1R B47K3TBD)	(320010)				
FERRIC OXIDE YE							
Product Char	acteris	tics					
Color GREEN Score no							
					no scoi	re	
•		GREEN ROUND	Size		9mm		
Flavor							
Flavor			Size		9mm		
Flavor Contains			Size		9mm		
Flavor Contains			Size		9mm APO;PR	XA;40	
Flavor Contains Packaging			Size Imprint Code		9mm	A;40 Marke	ting End Pate
Flavor Contains Packaging # Item Code	90 in 1 E Product	ROUND	Size Imprint Code		9mm APO;PR	A;40 Marke	•
Flavor Contains Packaging # Item Code 1 NDC:60505- 0170-9 NDC:60505	Product	ROUND Package Des	Size Imprint Code Scription ot a Combination	D	9mm APO;PR	A;40 Marke	•
Flavor Flavor Characteristics Particular Statistics # Item Code 1 NDC:60505- 0170-1 2 NDC:60505- 0170-5 3 NDC:60505- 0170-5	Product 100 in 1 Product 500 in 1 Product	ROUND Package Des 30TTLE; Type 0: No BOTTLE; Type 0: N BOTTLE; Type 0: N	Size Imprint Code Scription Data Combination Not a Combination	D 07/18/2011	9mm APO;PR	A;40 Marke	•
Flavor Flavor Contains Packaging # Item Code # Item Code 1 NDC:60505- 0170-1 2 NDC:60505- 0170-5 3 NDC:60505- 0170-7	Product 100 in 1 Product 500 in 1 Product 1000 in Product	ROUND Package Des 30TTLE; Type 0: No BOTTLE; Type 0: N BOTTLE; Type 0: N 1 BOTTLE; Type 0: N	Size Imprint Code Scription of a Combination Not a Combination Not a Combination	D 07/18/2011 07/18/2011	9mm APO;PR	A;40 Marke	•
 NDC:60505- 0170-9 NDC:60505- 0170-1 NDC:60505- 0170-5 NDC:60505- NDC:60505- 	Product 100 in 1 Product 500 in 1 Product 1000 in Product	ROUND Package Des 30TTLE; Type 0: No BOTTLE; Type 0: N BOTTLE; Type 0: N 1 BOTTLE; Type 0: N	Size Imprint Code Scription Data Combination Not a Combination	D 07/18/2011 07/18/2011 07/18/2011	9mm APO;PR	A;40 Marke	•
Flavor Flavor Contains Packaging # Item Code # Item Code 1 NDC:60505- 0170-1 2 NDC:60505- 0170-5 4 NDC:60505- 0170-7 5 NDC:60505-	 Product 100 in 1 Product 500 in 1 Product 1000 in Product 9000 in 	ROUND Package Des 30TTLE; Type 0: No BOTTLE; Type 0: N BOTTLE; Type 0: N 1 BOTTLE; Type 0: N	Size Imprint Code Scription of a Combination Not a Combination Not a Combination	D 07/18/2011 07/18/2011 07/18/2011 07/18/2011	9mm APO;PR	A;40 Marke	•
Flavor Flavor Contains Packaging # Item Code # Item Code 1 NDC:60505- 0170-1 2 NDC:60505- 0170-5 4 NDC:60505- 0170-7 5 NDC:60505-	Product 100 in 1 Product 500 in 1 Product 1000 in Product 9000 in Product	ROUND Package Des BOTTLE; Type 0: No BOTTLE; Type 0: No BOTTLE; Type 0: No BOTTLE; Type 0: No 1 BOTTLE; Type 0: 1 BOTTLE; Type 0:	Size Imprint Code Scription of a Combination Not a Combination Not a Combination	D 07/18/2011 07/18/2011 07/18/2011 07/18/2011	9mm APO;PR	A;40 Marke	•
Flavor Flavor Contains Packaging # Item Code # Item Code 1 NDC:60505- 0170-1 2 NDC:60505- 0170-5 4 NDC:60505- 0170-7 5 NDC:60505- 0170-8	Product 100 in 1 Product 500 in 1 Product 1000 in Product 9000 in Product	ROUND Package Des BOTTLE; Type 0: No BOTTLE; Type 0: No BOTTLE; Type 0: No 1 BOTTLE; Type 0: No 1 BOTTLE	Size Imprint Code Size Imprint Code Scription Ot a Combination Not a Combination	D 07/18/2011 07/18/2011 07/18/2011 07/18/2011	9mm APO;PR	A;40 Marke D	•

PRAVASTATIN SODIUM

pravastatin sodium tablet

Product Information

Product Type

HUMAN PRESCRIPTION DRUG

	inistration	ORAL					
Active Ingre	edient/Active	Moiety					
Ingredient Name Basis of Stren						Strengt	
Pravastatin So	dium (UNII: 3M86)	08UQ61) (Pravastatin - UNII:KXO2	KT9N0G)	Pravastatin So	odium	80 mg	
Inactive Ing	redients						
		Ingredient Name			St	rength	
CROSCARMELL	OSE SODIUM (UN	-					
LACTOSE MON	OHYDRATE (UNII:	EWQ57Q8I5X)					
MAGNESIUM ST	EARATE (UNII: 70	0097M6I30)					
MICROCRYSTA	LINE CELLULOS	E (UNII: OP1R32D61U)					
FERRIC OXIDE	YELLOW (UNII: E)	(43802MRT)					
	aracteristics		-				
Color		ite to light yellow)	Score			no score	
Shape 	ROUND		Size			6mm	
Flavor Imprint Code APO;PRA;80					RA;80		
Contains							
contains							
Packaging			Market	ing Start	Marke	ting End	
Packaging	e Pa	ckage Description		ing Start ate		ting End ate	
Packaging # Item Cod		ckage Description .E; Type 0: Not a Combination		ate		-	
Packaging # Item Cod 1 NDC:60505- 1323-9 NDC:50505	90 in 1 BOTTL Product		D	ate		-	
Packaging # Item Cod 1 NDC:60505- 1323-9 2 NDC:60505- 1323-1	90 in 1 BOTTL Product 100 in 1 BOTT Product	E; Type 0: Not a Combination	D 07/18/2011	ate		-	
Item Cod 1 NDC:60505- 1323-9 2 NDC:60505- 1323-1 3 NDC:60505- 1323-5 4	90 in 1 BOTTL Product 100 in 1 BOTT Product 500 in 1 BOT Product 1000 in 1 BOT Product	E; Type 0: Not a Combination TLE; Type 0: Not a Combination TLE; Type 0: Not a Combination TTLE; Type 0: Not a Combination	07/18/2011 07/18/2011	ate		-	
Packaging # Item Cod 1 NDC:60505- 1323-9 2 NDC:60505- 1323-1 3 NDC:60505- 1323-5 4 NDC:60505-	90 in 1 BOTTL Product 100 in 1 BOTT Product 500 in 1 BOT Product 1000 in 1 BOT Product	E; Type 0: Not a Combination TLE; Type 0: Not a Combination TLE; Type 0: Not a Combination	O7/18/2011 07/18/2011 07/18/2011 07/18/2011	ate		-	
 Packaging # Item Cod NDC:60505- 1323-9 NDC:60505- 1323-1 NDC:60505- 1323-5 NDC:60505- 1323-7 NDC:60505- 1323-7 NDC:60505- 	90 in 1 BOTTL Product 100 in 1 BOTT Product 500 in 1 BOTT Product 1000 in 1 BOTT Product 5000 in 1 BOTT	E; Type 0: Not a Combination TLE; Type 0: Not a Combination TLE; Type 0: Not a Combination TTLE; Type 0: Not a Combination	O7/18/2011 07/18/2011 07/18/2011 07/18/2011 07/18/2011 07/18/2011	ate		_	
Packaging # Item Cod 1 NDC:60505-1323-9 2 NDC:60505-1323-1 3 NDC:60505-1323-5 4 NDC:60505-1323-7 5 NDC:60505-1323-8	90 in 1 BOTTL Product 100 in 1 BOTT Product 500 in 1 BOTT Product 1000 in 1 BOTT Product 5000 in 1 BOTT	E; Type 0: Not a Combination FLE; Type 0: Not a Combination FLE; Type 0: Not a Combination FTLE; Type 0: Not a Combination FTLE; Type 0: Not a Combination	O7/18/2011 07/18/2011 07/18/2011 07/18/2011 07/18/2011 07/18/2011	ate		-	
Packaging # Item Cod 1 NDC:60505-1323-9 2 NDC:60505-1323-1 3 NDC:60505-1323-5 4 NDC:60505-1323-7 5 NDC:60505-1323-8	90 in 1 BOTTL Product 100 in 1 BOTTL Product 500 in 1 BOTTL Product 1000 in 1 BOTTL Product 5000 in 1 BOTTL Product 500 in 1 BOTTL Product 100 in 1 BOTTL Product 1000 in 1 BOTTL Product 1000 in 1 BOTTL Product 1000 in 1 BOTTL Product 1000 in 1 BOTTL Product 5000 in 1 BOTTL Product Product Pr	E; Type 0: Not a Combination FLE; Type 0: Not a Combination FLE; Type 0: Not a Combination FTLE; Type 0: Not a Combination FTLE; Type 0: Not a Combination	 D O7/18/2011 O7/18/2011 O7/18/2011 O7/18/2011 O7/18/2011 O7/18/2011 	ate	Marke	-	

Labeler - Apotex Corp. (845263701)

Registrant - Apotex Inc. (209429182)

Establishment

Name	Address	ID/FEI	Business Operations		
Apote: Inc.	:	205576023	manufacture(60505-0168, 60505-0169, 60505-0170, 60505-1323) , analysis(60505- 0168, 60505-0169, 60505-0170, 60505-1323)		

Revised: 12/2023