

# ROSUVASTATIN CALCIUM - rosuvastatin calcium tablet, film coated

## Cadila Pharmaceuticals Limited

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### HIGHLIGHTS OF PRESCRIBING INFORMATION

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

### ROSUVASTATIN CALCIUM tablets

Initial U.S. Approval: 2003

#### INDICATIONS AND USAGE

Rosuvastatin calcium is an HMG Co-A reductase inhibitor indicated for: (1)

- adult patients with hypertriglyceridemia as an adjunct to diet (1.3)
- adult patients with primary dysbetalipoproteinemia (Type III hyperlipoproteinemia) as an adjunct to diet (1.4)
- adult patients with homozygous familial hypercholesterolemia (HoFH) to reduce LDL-C, total-C, and ApoB (1.5)

Limitations of use (1.8): Rosuvastatin calcium has not been studied in Fredrickson Type I and V dyslipidemias. (1)

#### DOSAGE AND ADMINISTRATION

- Rosuvastatin calcium tablets can be taken with or without food, at any time of day. (2.1) (2)
- Dose range: 5 to 40 mg once daily. Use 40 mg dose only for patients not reaching LDL-C goal with 20 mg. (2.1) (2)
- Adult HoFH: Starting dose 20 mg/day (2.1) (2)

#### DOSAGE FORMS AND STRENGTHS

Tablets: 5 mg, 10 mg, 20 mg, and 40 mg (3)

#### CONTRAINDICATIONS

- Known hypersensitivity to product components (4) (4)
- Active liver disease, which may include unexplained persistent elevations in hepatic transaminase levels (4) (4)
- Pregnancy (4, 8.1, 8.3) (4)
- Lactation (4, 8.2) (4)

#### WARNINGS AND PRECAUTIONS

- **Skeletal muscle effects (e.g., myopathy and rhabdomyolysis):** Risks increase with use of 40 mg dose, advanced age ( $\geq 65$ ), hypothyroidism, renal impairment, and combination use with cyclosporine, atazanavir/ritonavir lopinavir/ritonavir, or simeprevir. Cases of myopathy and rhabdomyolysis with acute renal failure secondary to myoglobinuria have been reported. Advise patients to promptly report to their physician unexplained and/or persistent muscle pain, tenderness, or weakness and discontinue rosuvastatin calcium tablets if signs or symptoms appear. (5.1, 7.5, 7.6)
- **Liver enzyme abnormalities:** Persistent elevations in hepatic transaminases can occur. Perform liver enzyme tests before initiating therapy and as clinically indicated thereafter. (5.2) (5)

#### ADVERSE REACTIONS

Most frequent adverse reactions (rate  $\geq 2\%$ ) are headache, myalgia, abdominal pain, asthenia, and nausea. (6.1)

**To report SUSPECTED ADVERSE REACTIONS, contact Cadila Pharmaceuticals Limited At 1-202-355-9785 (fax 1-202-355-9784) or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).**

#### DRUG INTERACTIONS

- **Cyclosporine:** Combination increases rosuvastatin exposure. Limit rosuvastatin calcium tablets dose to 5 mg once daily. (2.4, 5.1, 7.1, 12.3)
- **Gemfibrozil:** Combination should be avoided. If used together, limit rosuvastatin calcium tablets dose to 10 mg once daily. (2.4, 5.1, 7.2)
- **Atazanavir/ritonavir, lopinavir/ritonavir, or simeprevir:** Combination increases rosuvastatin exposure. Limit rosuvastatin calcium tablets dose to 10 mg once daily. (2.4, 5.1, 7.3, 12.3)
- **Coumarin anticoagulants:** Combination prolongs INR. Achieve stable INR prior to starting rosuvastatin calcium tablets. Monitor INR frequently until stable upon initiation or alteration of rosuvastatin calcium tablets therapy. (5.3, 7.4)
- **Concomitant lipid-lowering therapies:** Use with fibrates or lipid-modifying doses ( $\geq 1$  g/day) of niacin increases the risk of adverse skeletal muscle effects. Caution should be used when prescribing with rosuvastatin calcium tablets. (5.1, 7.5, 7.6) (7)

#### USE IN SPECIFIC POPULATIONS

- **Females of reproductive potential:** Advise females of reproductive potential to use effective contraception during treatment with rosuvastatin calcium tablets (8.3) (8)
- **Severe renal impairment (not on hemodialysis):** Starting dose is 5 mg, not to exceed 10 mg. (2.5, 5.1, 8.6) (8)
- **Asian population:** Consider 5 mg starting dose. (2.3, 8.8) (8)

**Pediatric use information for patients 7 to 17 years of age is approved for AstraZeneca's CRESTOR**

(rosuvastatin calcium) tablets. However, due to AstraZeneca's marketing exclusivity rights, this drug product is not labeled with that pediatric information. (8)

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

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## **FULL PRESCRIBING INFORMATION**

### **1 INDICATIONS & USAGE**

**Pediatric use information for patients 7 to 17 years of age is approved for AstraZeneca's CRESTOR (rosuvastatin calcium) tablets. However, due to AstraZeneca's marketing exclusivity rights, this drug product is not labeled with that pediatric information.**

#### **1.3 Hypertriglyceridemia**

Rosuvastatin calcium tablets are indicated as adjunctive therapy to diet for the treatment of adult patients with hypertriglyceridemia.

#### **1.4 Primary Dysbetalipoproteinemia (Type III Hyperlipoproteinemia)**

Rosuvastatin calcium tablets are indicated as an adjunct to diet for the treatment of adult patients with primary dysbetalipoproteinemia (Type III Hyperlipoproteinemia).

#### **1.5 Adult Patients with Homozygous Familial Hypercholesterolemia**

Rosuvastatin calcium tablets are indicated as adjunctive therapy to other lipid-lowering treatments (e.g., LDL apheresis) or alone if such treatments are unavailable to reduce LDL-C, Total-C, and ApoB in adult patients with homozygous familial hypercholesterolemia.

#### **1.8 Limitations of Use**

Rosuvastatin calcium tablets have not been studied in Fredrickson Type I and V dyslipidemias.

## **2 DOSAGE & ADMINISTRATION**

### **2.1 General Dosing Information**

The dose range for rosuvastatin calcium tablets in adults is 5 to 40 mg orally once daily. The usual starting dose is 10 to 20 mg once daily. The usual starting dose in adult patients with homozygous familial hypercholesterolemia is 20 mg once daily.

The maximum rosuvastatin calcium tablets dose of 40 mg should be used only for those patients who have not achieved their LDL-C goal utilizing the 20 mg dose [see *Warnings and Precautions (5.1)*].

Rosuvastatin calcium tablets can be administered as a single dose at any time of day, with or without food. The tablet should be swallowed whole.

When initiating rosuvastatin calcium tablets therapy or switching from another HMG-CoA reductase inhibitor therapy, the appropriate rosuvastatin calcium tablets starting dose should first be utilized, and only then titrated according to the patient's response and individualized goal of therapy.

After initiation or upon titration of rosuvastatin calcium tablets, lipid levels should be analyzed within 2 to 4 weeks and the dosage adjusted accordingly.

**Pediatric use information for patients 7 to 17 years of age is approved for AstraZeneca's CRESTOR (rosuvastatin calcium) tablets. However, due to AstraZeneca's marketing exclusivity rights, this drug product is not labeled with that pediatric information.**

### **2.3 Dosing in Asian Patients**

In Asian patients, consider initiation of rosuvastatin calcium tablets therapy with 5 mg once daily due to increased rosuvastatin plasma concentrations. The increased systemic exposure should be taken into consideration when treating Asian patients not adequately controlled at doses up to 20 mg/day. [see *Use in Specific Populations (8.8) and Clinical Pharmacology (12.3)*].

### **2.4 Use with Concomitant Therapy**

#### **Patients taking cyclosporine**

The dose of rosuvastatin calcium tablets should not exceed 5 mg once daily [see *Warnings and Precautions (5.1), Drug Interactions (7.1), and Clinical Pharmacology (12.3)*].

#### **Patients taking gemfibrozil**

Avoid concomitant use of rosuvastatin calcium tablets with gemfibrozil. If concomitant use cannot be avoided, initiate rosuvastatin calcium tablets at 5 mg once daily. The dose of rosuvastatin calcium tablets should not exceed 10 mg once daily [see *Warnings and Precautions (5.1) and Drug Interactions (7.2), and Clinical Pharmacology (12.3)*].

#### **Patients taking atazanavir and ritonavir, lopinavir and ritonavir or simeprevir**

Initiate rosuvastatin calcium tablets therapy with 5 mg once daily. The dose of rosuvastatin calcium tablets should not exceed 10 mg once daily [see *Warnings and Precautions (5.1), Drug Interactions (7.3), and Clinical Pharmacology (12.3)*].

### **2.5 Dosing in Patients with Severe Renal Impairment**

For patients with severe renal impairment ( $CL_{CR} < 30 \text{ mL/min/1.73 m}^2$ ) not on hemodialysis, dosing of rosuvastatin calcium tablets should be started at 5 mg once daily and not exceed 10 mg once daily [see *Use in Specific Populations (8.6) and Clinical Pharmacology (12.3)*].

## **3 DOSAGE FORMS & STRENGTHS**

5 mg: Yellow, round, biconvex, film coated tablets, debossed with "C9" on one side & plain on other side.

10 mg: Pink, round, biconvex, film coated tablets, debossed with "C10" on one side & plain on other side.

20 mg: Pink, round, biconvex, film coated tablets, debossed with "C20" on one side & plain on other side.

40 mg: Pink, oval, biconvex, film coated tablets, debossed with "C40" on one side & plain on other side.

## 4 CONTRAINDICATIONS

Rosuvastatin calcium tablets are contraindicated in the following conditions:

- Patients with a known hypersensitivity to any component of this product. Hypersensitivity reactions including rash, pruritus, urticaria, and angioedema have been reported with rosuvastatin calcium tablets [see *Adverse Reactions (6.1)*].
- Patients with active liver disease, which may include unexplained persistent elevations of hepatic transaminase levels [see *Warnings and Precautions (5.2)*].
- Pregnancy [see *Use in Specific Populations (8.1, 8.3)*].
- Lactation. Limited data indicate that rosuvastatin calcium is present in human milk. Because statins have the potential for serious adverse reactions in nursing infants, women who require rosuvastatin calcium treatment should not breastfeed their infants [see *Use in Specific Populations (8.2)*].

## 5 WARNINGS AND PRECAUTIONS

### 5.1 Skeletal Muscle Effects

**Cases of myopathy and rhabdomyolysis with acute renal failure secondary to myoglobinuria have been reported with HMG-CoA reductase inhibitors, including rosuvastatin calcium tablets. These risks can occur at any dose level, but are increased at the highest dose (40 mg).**

Rosuvastatin calcium tablets should be prescribed with caution in patients with predisposing factors for myopathy (e.g., age  $\geq$  65 years, inadequately treated hypothyroidism, renal impairment).

The risk of myopathy during treatment with rosuvastatin calcium tablets may be increased with concurrent administration of some other lipid-lowering therapies (fibrates or niacin), gemfibrozil, cyclosporine, atazanavir/ritonavir, lopinavir/ritonavir, or simeprevir [see *Dosage and Administration (2) and Drug Interactions (7)*]. Cases of myopathy, including rhabdomyolysis, have been reported with HMG-CoA reductase inhibitors, including rosuvastatin, coadministered with colchicine, and caution should be exercised when prescribing rosuvastatin calcium tablets with colchicine [see *Drug Interactions (7.7)*].

Rosuvastatin calcium tablets therapy should be discontinued if markedly elevated creatine kinase levels occur or myopathy is diagnosed or suspected. Rosuvastatin calcium tablets therapy should also be temporarily withheld in any patient with an acute, serious condition suggestive of myopathy or predisposing to the development of renal failure secondary to rhabdomyolysis (e.g., sepsis, hypotension, dehydration, major surgery, trauma, severe metabolic, endocrine, and electrolyte disorders, or uncontrolled seizures).

There have been rare reports of immune-mediated necrotizing myopathy (IMNM), an autoimmune myopathy, associated with statin use. IMNM is characterized by: proximal muscle weakness and elevated serum creatine kinase, which persist despite discontinuation of statin treatment; muscle biopsy showing necrotizing myopathy without significant inflammation; improvement with immunosuppressive agents.

All patients should be advised to promptly report to their physician unexplained muscle pain, tenderness, or weakness, particularly if accompanied by malaise or fever or if muscle signs and symptoms persist after discontinuing rosuvastatin calcium tablets.

## 5.2 Liver Enzyme Abnormalities

It is recommended that liver enzyme tests be performed before the initiation of rosuvastatin calcium tablets, and if signs or symptoms of liver injury occur.

Increases in serum transaminases [AST (SGOT) or ALT (SGPT)] have been reported with HMG-CoA reductase inhibitors, including rosuvastatin calcium tablets. In most cases, the elevations were transient and resolved or improved on continued therapy or after a brief interruption in therapy. There were two cases of jaundice, for which a relationship to rosuvastatin calcium tablets therapy could not be determined, which resolved after discontinuation of therapy. There were no cases of liver failure or irreversible liver disease in these trials.

In a pooled analysis of placebo-controlled trials, increases in serum transaminases to >3 times the upper limit of normal occurred in 1.1% of patients taking rosuvastatin calcium tablets versus 0.5% of patients treated with placebo.

There have been rare postmarketing reports of fatal and non-fatal hepatic failure in patients taking statins, including rosuvastatin. If serious liver injury with clinical symptoms and/or hyperbilirubinemia or jaundice occurs during treatment with rosuvastatin calcium tablets, promptly interrupt therapy. If an alternate etiology is not found, do not restart rosuvastatin calcium tablets.

Rosuvastatin calcium tablets should be used with caution in patients who consume substantial quantities of alcohol and/or have a history of chronic liver disease [see *Clinical Pharmacology (12.3)*]. Active liver disease, which may include unexplained persistent transaminase elevations, is a contraindication to the use of rosuvastatin calcium tablets [see *Contraindications (4)*].

## 5.3 Concomitant Coumarin Anticoagulants

Caution should be exercised when anticoagulants are given in conjunction with rosuvastatin calcium tablets because of its potentiation of the effect of coumarin-type anticoagulants in prolonging the prothrombin time/INR. In patients taking coumarin anticoagulants and rosuvastatin calcium tablets concomitantly, INR should be determined before starting rosuvastatin calcium tablets and frequently enough during early therapy to ensure that no significant alteration of INR occurs [see *Drug Interactions (7.4)*].

## 5.4 Proteinuria and Hematuria

In the rosuvastatin calcium tablets clinical trial program, dipstick-positive proteinuria and microscopic hematuria were observed among rosuvastatin calcium tablets treated patients. These findings were more frequent in patients taking rosuvastatin calcium tablets 40 mg, when compared to lower doses of rosuvastatin calcium tablets or comparator HMG-CoA reductase inhibitors, though it was generally transient and was not associated with worsening renal function. Although the clinical significance of this finding is unknown, a dose reduction should be considered for patients on rosuvastatin calcium tablets therapy with unexplained persistent proteinuria and/or hematuria during routine urinalysis testing.

## 5.5 Endocrine Effects

Increases in HbA1c and fasting serum glucose levels have been reported with HMG-CoA reductase inhibitors, including rosuvastatin calcium tablets. Based on clinical trial data with rosuvastatin calcium tablets, in some instances these increases may exceed the threshold for the diagnosis of diabetes mellitus [see *Adverse Reactions (6.1)*].

Although clinical studies have shown that rosuvastatin calcium tablets alone does not reduce basal

plasma cortisol concentration or impair adrenal reserve, caution should be exercised if rosuvastatin calcium tablets are administered concomitantly with drugs that may decrease the levels or activity of endogenous steroid hormones such as ketoconazole, spironolactone, and cimetidine.

## 6 ADVERSE REACTIONS

The following serious adverse reactions are discussed in greater detail in other sections of the label:

- Rhabdomyolysis with myoglobinuria and acute renal failure and myopathy (including myositis) [see *Warnings and Precautions (5.1)*]
- Liver enzyme abnormalities [see *Warnings and Precautions (5.2)*]

### 6.1 Clinical Studies 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 clinical practice.

In the rosuvastatin calcium tablets controlled clinical trials database (placebo or active-controlled) of 5,394 patients with a mean treatment duration of 15 weeks, 1.4% of patients discontinued due to adverse reactions. The most common adverse reactions that led to treatment discontinuation were:

- myalgia
- abdominal pain
- nausea

The most commonly reported adverse reactions (incidence  $\geq 2\%$ ) in the rosuvastatin calcium tablets controlled clinical trial database of 5,394 patients were:

- headache
- myalgia
- abdominal pain
- asthenia
- nausea

Adverse reactions reported in  $\geq 2\%$  of patients in placebo-controlled clinical studies and at a rate greater than placebo are shown in Table 1. These studies had a treatment duration of up to 12 weeks.

**Table 1. Adverse Reactions<sup>1</sup> Reported in  $\geq 2\%$  of Patients Treated with rosuvastatin calcium tablets and > Placebo in Placebo-Controlled Trials (% of Patients)**

Adverse Reactions	Rosuvastatin calcium tablets 5 mg N=291	Rosuvastatin calcium tablets 10 mg N=283	Rosuvastatin calcium tablets 20 mg N=64	Rosuvastatin calcium tablets 40 mg N=106	Total Rosuvastatin calcium tablets 5 mg to 40 mg N=744	Placebo N=382
Headache	5.5	4.9	3.1	8.5	5.5	5.0
Nausea	3.8	3.5	6.3	0	3.4	3.1
Myalgia	3.1	2.1	6.3	1.9	2.8	1.3
Asthenia	2.4	3.2	4.7	0.9	2.7	2.6
Constipation	2.1	2.1	4.7	2.8	2.4	2.4

<sup>1</sup>Adverse reactions by COSTART preferred term.

Other adverse reactions reported in clinical studies were abdominal pain, dizziness, hypersensitivity (including rash, pruritus, urticaria, and angioedema) and pancreatitis. The following laboratory abnormalities have also been reported: dipstick-positive proteinuria and microscopic hematuria [see *Warnings and Precautions (5.4)*]; elevated creatine phosphokinase, transaminases, glucose, glutamyl transpeptidase, alkaline phosphatase, and bilirubin; and thyroid function abnormalities.

In a clinical trial, involving 981 participants treated with rosuvastatin 40 mg (n=700) or placebo (n=281) with a mean treatment duration of 1.7 years, 5.6% of subjects treated with rosuvastatin calcium tablets versus 2.8% of placebo-treated subjects discontinued due to adverse reactions. The most common adverse reactions that led to treatment discontinuation were: myalgia, hepatic enzyme increased, headache, and nausea.

Adverse reactions reported in  $\geq 2\%$  of patients and at a rate greater than placebo are shown in Table 2.

**Table 2. Adverse Reactions<sup>1</sup> Reported in  $\geq 2\%$  of Patients Treated with rosuvastatin calcium tablets and > Placebo in a Trial (% of Patients)**

<b>Adverse Reactions</b>	<b>Rosuvastatin calcium tablets 40 mg N=700</b>	<b>Placebo N=281</b>
Myalgia	12.7	12.1
Arthralgia	10.1	7.1
Headache	6.4	5.3
Dizziness	4.0	2.8
Increased CPK	2.6	0.7
Abdominal pain	2.4	1.8
ALT >3x ULN <sup>2</sup>	2.2	0.7

<sup>1</sup>Adverse reactions by MedDRA preferred term.

<sup>2</sup>Frequency recorded as abnormal laboratory value.

In a clinical trial, 17,802 participants were treated with rosuvastatin 20 mg (n=8,901) or placebo (n=8,901) for a mean duration of 2 years. A higher percentage of rosuvastatin-treated patients versus placebo-treated patients, 6.6% and 6.2%, respectively, discontinued study medication due to an adverse event, irrespective of treatment causality. Myalgia was the most common adverse reaction that led to treatment discontinuation.

There was a significantly higher frequency of diabetes mellitus reported in patients taking rosuvastatin (2.8%) versus patients taking placebo (2.3%). Mean HbA1c was significantly increased by 0.1% in rosuvastatin-treated patients compared to placebo-treated patients. The number of patients with a HbA1c > 6.5% at the end of the trial was significantly higher in rosuvastatin-treated versus placebo-treated patients [see *Warnings and Precautions (5.5)*].

Adverse reactions reported in  $\geq 2\%$  of patients and at a rate greater than placebo are shown in Table 3.

**Table 3. Adverse Reactions<sup>1</sup> Reported in  $\geq 2\%$  of Patients Treated with Rosuvastatin calcium tablets and > Placebo in a Trial (% of Patients)**

<b>Adverse Reactions</b>	<b>Rosuvastatin calcium tablets 20 mg N=8,901</b>	<b>Placebo N=8,901</b>
Myalgia	7.6	6.6
Arthralgia	3.8	3.2



Constipation	3.3	3.0
Diabetes mellitus	2.8	2.3
Nausea	2.4	2.3

<sup>1</sup>Treatment-emergent adverse reactions by MedDRA preferred term.

## 6.2 Postmarketing Experience

The following adverse reactions have been identified during postapproval use of rosuvastatin calcium tablets: arthralgia, fatal and non-fatal hepatic failure, hepatitis, jaundice, thrombocytopenia, depression, sleep disorders (including insomnia and nightmares), peripheral neuropathy, interstitial lung disease and gynecomastia. 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.

There have been rare reports of immune-mediated necrotizing myopathy associated with statin use [*see Warnings and Precautions (5.1)*].

There have been rare postmarketing reports of cognitive impairment (e.g., memory loss, forgetfulness, amnesia, memory impairment, and confusion) associated with statin use. These cognitive issues have been reported for all statins. The reports are generally nonserious, and reversible upon statin discontinuation, with variable times to symptom onset (1 day to years) and symptom resolution (median of 3 weeks).

## 7 DRUG INTERACTIONS

### 7.1 Cyclosporine

Cyclosporine increased rosuvastatin exposure and may result in increased risk of myopathy. Therefore, in patients taking cyclosporine, the dose of rosuvastatin calcium tablets should not exceed 5 mg once daily [*see Dosage and Administration (2.5), Warnings and Precautions (5.1), and Clinical Pharmacology (12.3)*].

### 7.2 Gemfibrozil

Gemfibrozil significantly increased rosuvastatin exposure. Due to an observed increased risk of myopathy/rhabdomyolysis, combination therapy with rosuvastatin calcium tablets and gemfibrozil should be avoided. If used together, the dose of rosuvastatin calcium tablets should not exceed 10 mg once daily [*see Clinical Pharmacology (12.3)*].

### 7.3 Protease Inhibitors

Coadministration of rosuvastatin with certain protease inhibitors has differing effects on rosuvastatin exposure and may increase risk of myopathy. Simeprevir, which is a hepatitis C virus (HCV) protease inhibitor, or combinations of atazanavir/ritonavir or lopinavir/ritonavir, which are HIV-1 protease inhibitors, increase rosuvastatin exposure [*see Table 4 – Clinical Pharmacology (12.3)*]. For these protease inhibitors, the dose of rosuvastatin calcium tablets should not exceed 10 mg once daily. The combinations of fosamprenavir/ritonavir or tipranavir/ritonavir, which are HIV-1 protease inhibitors, produce little or no change in rosuvastatin exposure. Caution should be exercised when rosuvastatin is coadministered with protease inhibitors [*see Dosage and Administration (2.4), Warnings and Precautions (5.1) and Clinical Pharmacology (12.3)*].

### 7.4 Coumarin Anticoagulants

Rosuvastatin calcium tablets significantly increased INR in patients receiving coumarin anticoagulants.

Therefore, caution should be exercised when coumarin anticoagulants are given in conjunction with rosuvastatin calcium tablets. In patients taking coumarin anticoagulants and rosuvastatin calcium tablets concomitantly, INR should be determined before starting rosuvastatin calcium tablets and frequently enough during early therapy to ensure that no significant alteration of INR occurs [see *Warnings and Precautions (5.3) and Clinical Pharmacology (12.3)*].

### **7.5 Niacin**

The risk of skeletal muscle effects may be enhanced when rosuvastatin calcium tablets are used in combination with lipid-modifying doses ( $\geq 1$  g/day) of niacin; caution should be used when prescribing with rosuvastatin calcium tablets [see *Warnings and Precautions (5.1)*].

### **7.6 Fenofibrate**

When rosuvastatin calcium tablets were coadministered with fenofibrate, no clinically significant increase in the AUC of rosuvastatin or fenofibrate was observed. Because it is known that the risk of myopathy during treatment with HMG-CoA reductase inhibitors is increased with concomitant use of fenofibrates, caution should be used when prescribing fenofibrates with rosuvastatin calcium tablets [see *Warnings and Precautions (5.1) and Clinical Pharmacology (12.3)*].

### **7.7 Colchicine**

Cases of myopathy, including rhabdomyolysis, have been reported with HMG-CoA reductase inhibitors, including rosuvastatin, coadministered with colchicine, and caution should be exercised when prescribing rosuvastatin calcium tablets with colchicine [see *Warnings and Precautions (5.1)*].

## **8 USE IN SPECIFIC POPULATIONS**

### **8.1 Pregnancy**

#### **Risk Summary**

Rosuvastatin calcium tablets are contraindicated for use in pregnant women since safety in pregnant women has not been established and there is no apparent benefit to therapy with rosuvastatin calcium tablets during pregnancy. Because HMG-CoA reductase inhibitors decrease cholesterol synthesis and possibly the synthesis of other biologically active substances derived from cholesterol, rosuvastatin calcium tablets may cause fetal harm when administered to pregnant women. Rosuvastatin calcium tablets should be discontinued as soon as pregnancy is recognized [see *Contraindications (4)*]. Limited published data on the use of rosuvastatin are insufficient to determine a drug-associated risk of major congenital malformations or miscarriage. In animal reproduction studies, there were no adverse developmental effects with oral administration of rosuvastatin during organogenesis at systemic exposures equivalent to a maximum recommended human dose (MRHD) of 40 mg/day in rats or rabbits (based on AUC and body surface area, respectively). In rats and rabbits, decreased pup/fetal survival occurred at 12 times and equivalent, respectively, to the MRHD of 40 mg/day [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 15 to 20%, respectively.

#### **Data**

##### ***Human Data***

Limited published data on rosuvastatin have not shown an increased risk of major congenital malformations or miscarriage. Rare reports of congenital anomalies have been received following intrauterine exposure to other statins. In a review of approximately 100 prospectively followed pregnancies in women exposed to simvastatin or lovastatin, the incidences of congenital anomalies,

spontaneous abortions, and fetal deaths/stillbirths did not exceed what would be expected in the general population. The number of cases is adequate to exclude a  $\geq 3$  to 4-fold increase in congenital anomalies over the background incidence. In 89% of the prospectively followed pregnancies, drug treatment was initiated prior to pregnancy and was discontinued at some point in the first trimester when pregnancy was identified.

### ***Animal Data***

Rosuvastatin crosses the placenta in rats and rabbits and is found in fetal tissue and amniotic fluid at 3% and 20%, respectively, of the maternal plasma concentration following a single 25 mg/kg oral gavage dose on gestation day 16 in rats. A higher fetal tissue distribution (25% maternal plasma concentration) was observed in rabbits after a single oral gavage dose of 1 mg/kg on gestation day 18.

Rosuvastatin administration did not indicate a teratogenic effect in rats at  $\leq 25$  mg/kg/day or in rabbits  $\leq 3$  mg/kg/day (doses equivalent to the MRHD of 40 mg/day based on AUC and body surface area, respectively).

In female rats given 5, 15 and 50 mg/kg/day before mating and continuing through to gestation day 7 resulted in decreased fetal body weight (female pups) and delayed ossification at 50 mg/kg/day (10 times the human exposure at the MRHD dose of 40 mg/day based on AUC).

In pregnant rats given 2, 10 and 50 mg/kg/day of rosuvastatin from gestation day 7 through lactation day 21 (weaning), decreased pup survival occurred at 50 mg/kg/day (dose equivalent to 12 times the MRHD of 40 mg/day based body surface area).

In pregnant rabbits given 0.3, 1, and 3 mg/kg/day of rosuvastatin from gestation day 6 to day 18, decreased fetal viability and maternal mortality was observed at 3 mg/kg/day (dose equivalent to the MRHD of 40 mg/day based on body surface area).

## **8.2 Lactation**

### **Risk Summary**

Rosuvastatin use is contraindicated during breastfeeding [*see Contraindications (4)*]. Limited data indicate that rosuvastatin calcium 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. Because of the potential for serious adverse reactions in a breastfed infant, advise patients that breastfeeding is not recommended during treatment with rosuvastatin calcium tablets.

## **8.3 Females and Males of Reproductive Potential**

### **Contraception**

Rosuvastatin calcium tablets may cause fetal harm when administered to a pregnant woman [*see Use in Specific Populations (8.1)*]. Advise females of reproductive potential to use effective contraception during treatment with rosuvastatin calcium tablets.

## **8.4 Pediatric Use**

**Pediatric use information for patients 7 to 17 years of age is approved for AstraZeneca's CRESTOR (rosuvastatin calcium) tablets. However, due to AstraZeneca's marketing exclusivity rights, this drug product is not labeled with that pediatric information.**

## **8.5 Geriatric Use**

Of the 10,275 patients in clinical studies with rosuvastatin calcium tablets, 3,159 (31%) were 65 years

and older, and 698 (6.8%) were 75 years and older. No overall differences in safety or effectiveness were observed between these subjects and younger subjects, and other reported clinical experience has not identified differences in responses between the elderly and younger patients, but greater sensitivity of some older individuals cannot be ruled out.

Elderly patients are at higher risk of myopathy and rosuvastatin calcium tablets should be prescribed with caution in the elderly [see *Warnings and Precautions (5.1) and Clinical Pharmacology (12.3)*].

### **8.6 Renal Impairment**

Rosuvastatin exposure is not influenced by mild to moderate renal impairment ( $CL_{cr} \geq 30$  mL/min/1.73 m<sup>2</sup>). Exposure to rosuvastatin is increased to a clinically significant extent in patients with severe renal impairment ( $CL_{cr} < 30$  mL/min/1.73 m<sup>2</sup>) who are not receiving hemodialysis and dose adjustment is required [see *Dosage and Administration (2.5), Warnings and Precautions (5.1) and Clinical Pharmacology (12.3)*].

### **8.7 Hepatic Impairment**

Rosuvastatin calcium tablets are contraindicated in patients with active liver disease, which may include unexplained persistent elevations of hepatic transaminase levels. Chronic alcohol liver disease is known to increase rosuvastatin exposure; rosuvastatin calcium tablets should be used with caution in these patients [see *Contraindications (4), Warning and Precautions (5.2), and Clinical Pharmacology (12.3)*].

### **8.8 Asian Patients**

Pharmacokinetic studies have demonstrated an approximate 2-fold increase in median exposure to rosuvastatin in Asian subjects when compared with Caucasian controls. Rosuvastatin calcium tablets dosage should be adjusted in Asian patients [see *Dosage and Administration (2.3) and Clinical Pharmacology (12.3)*].

## **10 OVERDOSAGE**

There is no specific treatment in the event of overdose. In the event of overdose, the patient should be treated symptomatically and supportive measures instituted as required. Hemodialysis does not significantly enhance clearance of rosuvastatin.

## **11 DESCRIPTION**

Rosuvastatin calcium is a synthetic lipid-lowering agent for oral administration.

The chemical name for rosuvastatin calcium is bis[(E)-7-[4-(4-fluorophenyl)-6-isopropyl-2-methyl(methylsulfonyl)amino]pyrimidin-5-yl](3R,5S)-3,5-dihydroxyhept-6-enoic acid] calcium salt with the following structural formula:

The empirical formula for rosuvastatin calcium is  $(C_{22}H_{27}FN_3O_6S)_2Ca$  and the molecular weight is 1,001.14. Rosuvastatin calcium is a white amorphous powder that is sparingly soluble in water and methanol, and slightly soluble in ethanol. Rosuvastatin calcium is a hydrophilic compound with a partition coefficient (octanol/water) of 0.13 at pH of 7.0.

Rosuvastatin calcium tablets for oral administration contain 5, 10, 20, or 40 mg of rosuvastatin and the following inactive ingredients: Each tablet contains: 5 mg tablet - microcrystalline cellulose, lactose monohydrate, crospovidone, magnesium stearate, hypromellose, titanium dioxide, triacetin, iron oxide yellow, sodium hydrogen carbonate; 10 mg, 20 mg, 40 mg tablet - microcrystalline cellulose, lactose monohydrate, crospovidone, magnesium stearate, hypromellose, titanium dioxide, triacetin, iron oxide red, sodium hydrogen carbonate.

## **12 CLINICAL PHARMACOLOGY**

### **12.1 Mechanism of Action**

Rosuvastatin calcium is a selective and competitive inhibitor of HMG-CoA reductase, the rate-limiting enzyme that converts 3-hydroxy-3-methylglutaryl coenzyme A to mevalonate, a precursor of cholesterol. *In vivo* studies in animals, and *in vitro* studies in cultured animal and human cells have shown rosuvastatin to have a high uptake into, and selectivity for, action in the liver, the target organ for cholesterol lowering. In *in vivo* and *in vitro* studies, rosuvastatin produces its lipid-modifying effects in two ways. First, it increases the number of hepatic LDL receptors on the cell-surface to enhance uptake and catabolism of LDL. Second, rosuvastatin inhibits hepatic synthesis of VLDL, which reduces the total number of VLDL and LDL particles.

### **12.2 Pharmacodynamics**

Rosuvastatin calcium dose dependently reduces elevated LDL-cholesterol and reduces total cholesterol and triglycerides and increases HDL-cholesterol [see *Clinical Studies(14)*]. A therapeutic response to rosuvastatin calcium tablets is evident within 1 week of commencing therapy and 90% of maximum response is usually achieved in 2 weeks. The maximum response is usually achieved by 4 weeks and is maintained after that. Individualization of drug dosage should be based on the therapeutic response [see *Dosage and Administration(2)*].

### **12.3 Pharmacokinetics**

#### **Absorption**

In clinical pharmacology studies in man, peak plasma concentrations of rosuvastatin were reached 3 to 5

hours following oral dosing. Both  $C_{max}$  and AUC increased in approximate proportion to rosuvastatin calcium tablets dose. The absolute bioavailability of rosuvastatin is approximately 20%.

Administration of rosuvastatin calcium tablets with food did not affect the AUC of rosuvastatin.

The AUC of rosuvastatin does not differ following evening or morning drug administration.

### **Distribution**

Mean volume of distribution at steady-state of rosuvastatin is approximately 134 liters. Rosuvastatin is 88% bound to plasma proteins, mostly albumin. This binding is reversible and independent of plasma concentrations.

### **Elimination**

Rosuvastatin is primarily eliminated by excretion in the feces. The elimination half-life of rosuvastatin is approximately 19 hours.

### *Metabolism*

Rosuvastatin is not extensively metabolized; approximately 10% of a radiolabeled dose is recovered as metabolite. The major metabolite is N-desmethyl rosuvastatin, which is formed principally by cytochrome P450 2C9, and *in vitro* studies have demonstrated that N-desmethyl rosuvastatin has approximately one-sixth to one-half the HMG-CoA reductase inhibitory activity of the parent compound. Overall, greater than 90% of active plasma HMG-CoA reductase inhibitory activity is accounted for by the parent compound.

### *Excretion*

Following oral administration, rosuvastatin and its metabolites are primarily excreted in the feces (90%).

After an intravenous dose, approximately 28% of total body clearance was via the renal route, and 72% by the hepatic route.

### **Specific Populations**

#### *Racial or Ethnic Groups*

A population pharmacokinetic analysis revealed no clinically relevant differences in pharmacokinetics among Caucasian, Hispanic, and Black or Afro-Caribbean groups. However, pharmacokinetic studies, including one conducted in the US, have demonstrated an approximate 2-fold elevation in median exposure (AUC and  $C_{max}$ ) in Asian subjects when compared with a Caucasian control group.

#### *Male and Female Patients*

There were no differences in plasma concentrations of rosuvastatin between men and women.

**Pediatric use information for patients ages 8 to less than 10 years is approved for AstraZeneca's CRESTOR (rosuvastatin calcium) tablets. However, due to AstraZeneca's marketing exclusivity rights, this drug product is not labeled with that pediatric information.**

## Geriatric Patients

There were no differences in plasma concentrations of rosuvastatin between the nonelderly and elderly populations (age  $\geq 65$  years).

## Patients with Renal Impairment

Mild to moderate renal impairment ( $CL_{CR} \geq 30$  mL/min/1.73 m<sup>2</sup>) had no influence on plasma concentrations of rosuvastatin. However, plasma concentrations of rosuvastatin increased to a clinically significant extent (about 3-fold) in patients with severe renal impairment ( $CL_{CR} < 30$  mL/min/1.73 m<sup>2</sup>) not receiving hemodialysis compared with healthy subjects ( $CL_{CR} > 80$  mL/min/1.73 m<sup>2</sup>).

## Hemodialysis

Steady-state plasma concentrations of rosuvastatin in patients on chronic hemodialysis were approximately 50% greater compared with healthy volunteer subjects with normal renal function.

## Patients with Hepatic Impairment

In patients with chronic alcohol liver disease, plasma concentrations of rosuvastatin were modestly increased.

In patients with Child-Pugh A disease,  $C_{max}$  and AUC were increased by 60% and 5%, respectively, as compared with patients with normal liver function. In patients with Child-Pugh B disease,  $C_{max}$  and AUC were increased 100% and 21%, respectively, compared with patients with normal liver function.

## Drug Interactions Studies

Rosuvastatin clearance is not dependent on metabolism by cytochrome P450 3A4 to a clinically significant extent.

Rosuvastatin is a substrate for certain transporter proteins including the hepatic uptake transporter organic anion-transporting polyprotein 1B1 (OATP1B1) and efflux transporter breast cancer resistance protein (BCRP). Concomitant administration of rosuvastatin calcium tablets with medications that are inhibitors of these transporter proteins (e.g. cyclosporine, certain HIV protease inhibitors) may result in increased rosuvastatin plasma concentrations [see *Dosage and Administration (2.4)*] and *Drug Interactions (7.1, 7.3)*].

**Table 4. Effect of Coadministered Drugs on Rosuvastatin Systemic Exposure**

Coadministered drug and dosing regimen	Rosuvastatin		
		Mean Ratio (ratio with/without coadministered drug) No Effect = 1.0	
	Dose (mg) <sup>1</sup>	Change in AUC	Change in $C_{max}$
Cyclosporine – stable dose required (75 mg to 200 mg BID)	10 mg QD for 10 days	7.1 <sup>2</sup>	11 <sup>2</sup>
Atazanavir/ritonavir combination 300 mg/100 mg QD for 8 days	10 mg	3.1 <sup>2</sup>	7 <sup>2</sup>
Simeprevir 150 mg QD, 7 days	10 mg, single dose	2.8 <sup>2</sup> (2.3 to 3.4) <sup>3</sup>	3.2 <sup>2</sup> (2.6 to 3.9) <sup>3</sup>
Lopinavir/ritonavir combination	20 mg QD for 7	2.1 <sup>2</sup> 1.7	5 <sup>2</sup> 4

400 mg/100 mg BID for 17 days	days	(1.7/2.6)	<sup>u)</sup> (3.4 to 6.4) <sup>3</sup>
Gemfibrozil 600 mg BID for 7 days	80 mg	1.9 <sup>2</sup> (1.6 to 2.2) <sup>3</sup>	2.2 <sup>2</sup> (1.8 to 2.7) <sup>3</sup>
Eltrombopag 75 mg QD, 5 days	10 mg	1.6 (1.4 to 1.7) <sup>3</sup>	2 (1.8 to 2.3) <sup>3</sup>
Darunavir 600 mg/ritonavir 100 mg BID, 7 days	10 mg QD for 7 days	1.5 (1.0 to 2.1) <sup>3</sup>	2.4 (1.6 to 3.6) <sup>3</sup>
Tipranavir/ritonavir combination 500 mg/200mg BID for 11 days	10 mg	1.4 (1.2 to 1.6) <sup>3</sup>	2.2 (1.8 to 2.7) <sup>3</sup>
Dronedarone 400 mg BID	10 mg	1.4	
Itraconazole 200 mg QD, 5 days	10 mg or 80 mg	1.4 (1.2 to 1.6) <sup>3</sup>	1.4 (1.2 to 1.5) <sup>3</sup>
		1.3 (1.1 to 1.4) <sup>3</sup>	1.2 (0.9 to 1.4) <sup>3</sup>
Ezetimibe 10 mg QD, 14 days	10 mg QD for 14 days	1.2 (0.9 to 1.6) <sup>3</sup>	1.2 (0.8 to 1.6) <sup>3</sup>
Fosamprenavir/ritonavir 700 mg/100 mg BID for 7 days	10 mg	1.1	1.5
Fenofibrate 67 mg TID for 7 days	10 mg	↔	1.2 (1.1 to 1.3) <sup>3</sup>
Rifampicin 450 mg QD, 7 days	20 mg	↔	
Aluminum & magnesium hydroxide combination antacid Administered simultaneously Administered 2 hours apart	40 mg	0.5 <sup>2</sup> (0.4 to 0.5) <sup>3</sup>	0.5 <sup>2</sup> (0.4 to 0.6) <sup>3</sup>
	40 mg	0.8 (0.7 to 0.9) <sup>3</sup>	0.8 (0.7 to 1.0) <sup>3</sup>
Ketoconazole 200 mg BID for 7 days	80 mg	1.0 (0.8 to 1.2) <sup>3</sup>	1.0 (0.7 to 1.3) <sup>3</sup>
Fluconazole 200 mg QD for 11 days	80 mg	1.1 (1.0 to 1.3) <sup>3</sup>	1.1 (0.9 to 1.4) <sup>3</sup>
Erythromycin 500 mg QID for 7 days	80 mg	0.8 (0.7 to 0.9) <sup>3</sup>	0.7 (0.5 to 0.9) <sup>3</sup>

<sup>1</sup>Single dose unless otherwise noted.

<sup>2</sup>Clinically significant [see Dosage and Administration (2) and Warnings and Precautions (5)]

<sup>3</sup>Mean ratio with 90% CI (with/without coadministered drug, e.g., 1 = no change, 0.7 = 30% decrease, 11 = 11 fold increase in exposure)

**Table 5. Effect of Rosuvastatin Coadministration on Systemic Exposure to Other Drugs**

Rosuvastatin Dosage Regimen	Coadministered Drug	Mean Ratio (ratio with/without coadministered drug) No Effect = 1.0	
		Change in AUC	Change in C <sub>max</sub>
40 mg QD for 10 days	Warfarin <sup>1</sup>	R- Warfarin 1.0 (1.0 to 1.1) <sup>2</sup>	R- Warfarin 1.0 (0.9 to 1.1) <sup>2</sup>
	25 mg single dose	S-Warfarin 1.1	S-Warfarin 1.0



		(1.0 to 1.1) <sup>2</sup>	(0.9 to 1.1) <sup>2</sup>
40 mg QD for 12 days	Digoxin 0.5 mg single dose	1.0 (0.9 to 1.2) <sup>2</sup>	1.0 (0.9 to 1.2) <sup>2</sup>
40 mg QD for 28 days	Oral Contraceptive (ethinyl estradiol 0.035 mg & norgestrel 0.180, 0.215 and 0.250 mg) QD for 21 Days	EE 1.3 (1.2 to 1.3) <sup>2</sup> NG 1.3 (1.3 to 1.4) <sup>2</sup>	EE 1.3 (1.2 to 1.3) <sup>2</sup> NG 1.2 (1.1 to 1.3) <sup>2</sup>

EE = ethinyl estradiol, NG = norgestrel

<sup>1</sup>Clinically significant pharmacodynamic effects [see Warnings and Precautions (5.3)]

<sup>2</sup>Mean ratio with 90% CI (with/without coadministered drug, e.g., 1 = no change, 0.7 = 30% decrease, 11 = 11-fold increase in exposure)

## 12.5 Pharmacogenomics

Disposition of HMG-CoA reductase inhibitors, including rosuvastatin, involves OATP1B1 and other transporter proteins. Higher plasma concentrations of rosuvastatin have been reported in very small groups of patients (n=3 to 5) who have two reduced function alleles of the gene that encodes OATP1B1 (*SLCO1B1* 521T > C). The frequency of this genotype (i.e., *SLCO1B1* 521 C/C) is generally lower than 5% in most racial/ethnic groups. The impact of this polymorphism on efficacy and/or safety of rosuvastatin has not been clearly established.

## 13 NONCLINICAL TOXICOLOGY

### 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

In a 104-week carcinogenicity study in rats at dose levels of 2, 20, 60, or 80 mg/kg/day by oral gavage, the incidence of uterine stromal polyps was significantly increased in females at 80 mg/kg/day at systemic exposure 20 times the human exposure at 40 mg/day based on AUC. Increased incidence of polyps was not seen at lower doses.

In a 107-week carcinogenicity study in mice given 10, 60, or 200 mg/kg/day by oral gavage, an increased incidence of hepatocellular adenoma/carcinoma was observed at 200 mg/kg/day at systemic exposures 20 times the human exposure at 40 mg/day based on AUC. An increased incidence of hepatocellular tumors was not seen at lower doses.

Rosuvastatin was not mutagenic or clastogenic with or without metabolic activation in the Ames test with *Salmonella typhimurium* and *Escherichia coli*, the mouse lymphoma assay, and the chromosomal aberration assay in Chinese hamster lung cells. Rosuvastatin was negative in the *in vivo* mouse micronucleus test.

In rat fertility studies with oral gavage doses of 5, 15, 50 mg/kg/day, males were treated for 9 weeks prior to and throughout mating and females were treated 2 weeks prior to mating and throughout mating until gestation day 7. No adverse effect on fertility was observed at 50 mg/kg/day (systemic exposures up to 10 times the human exposure at 40 mg/day based on AUC). In testicles of dogs treated with rosuvastatin at 30 mg/kg/day for one month, spermatidic giant cells were seen. Spermatidic giant cells were observed in monkeys after 6-month treatment at 30 mg/kg/day in addition to vacuolation of seminiferous tubular epithelium. Exposures in the dog were 20 times and in the monkey 10 times the human exposure at 40 mg/day based on body surface area. Similar findings have been seen with other drugs in this class.

## 13.2 Animal Toxicology and / or Pharmacology

### Central Nervous System Toxicity

CNS vascular lesions, characterized by perivascular hemorrhages, edema, and mononuclear cell infiltration of perivascular spaces, have been observed in dogs treated with several other members of this drug class. A chemically similar drug in this class produced dose-dependent optic nerve degeneration (Wallerian degeneration of retinogeniculate fibers) in dogs, at a dose that produced plasma drug levels about 30 times higher than the mean drug level in humans taking the highest recommended dose. Edema, hemorrhage, and partial necrosis in the interstitium of the choroid plexus was observed in a female dog sacrificed moribund at day 24 at 90 mg/kg/day by oral gavage (systemic exposures 100 times the human exposure at 40 mg/day based on AUC). Corneal opacity was seen in dogs treated for 52 weeks at 6 mg/kg/day by oral gavage (systemic exposures 20 times the human exposure at 40 mg/day based on AUC). Cataracts were seen in dogs treated for 12 weeks by oral gavage at 30 mg/kg/day (systemic exposures 60 times the human exposure at 40 mg/day based on AUC). Retinal dysplasia and retinal loss were seen in dogs treated for 4 weeks by oral gavage at 90 mg/kg/day (systemic exposures 100 times the human exposure at 40 mg/day based on AUC). Doses  $\leq$ 30 mg/kg/day (systemic exposures  $\leq$ 60 times the human exposure at 40 mg/day based on AUC) did not reveal retinal findings during treatment for up to one year.

### Juvenile Toxicology Study

In a juvenile study, rats were dosed by oral gavage with 10 or 50 mg/kg/day from weaning for 9 weeks prior to pairing, throughout pairing and up to the day before necropsy for males or up to gestation day 7 for females. No effects on sexual development, testicular and epididymal appearance or fertility were observed at either dose level.

**Pediatric information is approved for AstraZeneca's CRESTOR (rosuvastatin calcium) tablets. However, due to AstraZeneca's marketing exclusivity rights, this drug product is not labeled with that pediatric information.**

## 14 CLINICAL STUDIES

### 14.3 Hypertriglyceridemia

**Dose-Response Study:** In a double-blind, placebo-controlled dose-response study in patients with baseline TG levels from 273 to 817 mg/dL, rosuvastatin calcium tablets given as a single daily dose (5 to 40 mg) over 6 weeks significantly reduced serum TG levels (Table 9).

**Table 9. Dose-Response in Patients With Primary Hypertriglyceridemia Over 6 Weeks Dosing Median (Min, Max) Percent Change from Baseline**

Dose	Placebo (n=26)	Rosuvastatin calcium tablets 5 mg (n=25)	Rosuvastatin calcium tablets 10 mg (n=23)	Rosuvastatin calcium tablets 20 mg (n=27)	Rosuvastatin calcium tablets 40 mg (n=25)
Triglycerides	1 (-40, 72)	-21 (-58, 38)	-37 (-65, 5)	-37 (-72, 11)	-43 (-80, -7)
nonHDL-C	2 (-13, 19)	-29 (-43, -8)	-49 (-59, -20)	-43 (-74, 12)	-51 (-62, -6)
VLDL-C	2 (-36, 53)	-25 (-62, 49)	-48 (-72, 14)	-49 (-83, 20)	-56 (-83, 10)
Total-C	1 (-13, 17)	-24 (-40, -4)	-40 (-51, -14)	-34 (-61, -11)	-40 (-51, -4)
LDL-C	5 (-30, 52)	-28 (-71, 2)	-45 (-59, 7)	-31 (-66, 34)	-43 (-61, -3)
HDL-C	-3 (-25, 18)	3 (-38, 33)	8 (-8, 24)	22 (-5, 50)	17 (-14, 63)

### 14.4 Primary Dysbetalipoproteinemia (Type III Hyperlipoproteinemia)

In a randomized, multicenter, double-blind crossover study, 32 patients (27 with  $\epsilon 2/\epsilon 2$  and 4 with apo E mutation [Arg145Cys] with primary dysbetalipoproteinemia (Type III Hyperlipoproteinemia) entered a 6-week dietary lead-in period on the NCEP Therapeutic Lifestyle Change (TLC) diet. Following dietary lead-in, patients were randomized to a sequence of treatments in conjunction with the TLC diet for 6 weeks each: rosuvastatin 10 mg followed by rosuvastatin 20 mg or rosuvastatin 20 mg followed by rosuvastatin 10 mg. Rosuvastatin calcium tablets reduced non HDL-C (primary end point) and circulating remnant lipoprotein levels. Results are shown in the table below.

**Table 10. Lipid-modifying Effects of Rosuvastatin 10 mg and 20 mg in Primary Dysbetalipoproteinemia (Type III hyperlipoproteinemia) After Six weeks by Median Percent Change (95% CI) from Baseline (N=32)**

	Median at Baseline (mg/dL)	Median percent change from baseline (95% CI) rosuvastatin calcium tablets 10 mg	Median percent change from baseline (95% CI) rosuvastatin calcium tablets 20 mg
Total-C	342.5	-43.3 (-46.9, -37.5)	-47.6 (-51.6, -42.8)
Triglycerides	503.5	-40.1 (-44.9, -33.6)	-43.0 (-52.5, -33.1)
NonHDL-C	294.5	-48.2 (-56.7, -45.6)	-56.4 (-61.4, -48.5)
VLDL-C + IDL-C	209.5	-46.8 (-53.7, -39.4)	-56.2 (-67.7, -43.7)
LDL-C	112.5	-54.4 (-59.1, -47.3)	-57.3 (-59.4, -52.1)
HDL-C	35.5	10.2 (1.9, 12.3)	11.2 (8.3, 20.5)
RLP-C	82.0	-56.4 (-67.1, -49.0)	-64.9 (-74.0, -56.6)
Apo-E	16.0	-42.9 (-46.3, -33.3)	-42.5 (-47.1, -35.6)

#### 14.5 Homozygous Familial Hypercholesterolemia

**Dose-Titration Study:** In an open-label, forced-titration study, homozygous FH patients (n=40, 8 to 63 years) were evaluated for their response to rosuvastatin calcium tablets 20 to 40 mg titrated at a 6-week interval. In the overall population, the mean LDL-C reduction from baseline was 22%. About one-third of the patients benefited from increasing their dose from 20 mg to 40 mg with further LDL lowering of greater than 6%. In the 27 patients with at least a 15% reduction in LDL-C, the mean LDL-C reduction was 30% (median 28% reduction). Among 13 patients with an LDL-C reduction of <15%, 3 had no change or an increase in LDL-C. Reductions in LDL-C of 15% or greater were observed in 3 of 5 patients with known receptor negative status.

**Pediatric use information for patients 7 to 17 years of age is approved for AstraZeneca's CRESTOR (rosuvastatin calcium) tablets. However, due to AstraZeneca's marketing exclusivity rights, this drug product is not labeled with that pediatric information.**

#### 16 HOW SUPPLIED/STORAGE AND HANDLING

Rosuvastatin calcium tablets are supplied as:

- NDC 71209-043-04: 5 mg. Yellow, round, biconvex, film coated tablets, debossed with "C9" on one side and plain on other side.; bottle of 90 tablets

- NDC 71209-044-04: 10 mg. Pink, round, biconvex, film coated tablets, debossed with "C10" on one side and plain on other side.; bottle of 90 tablets
- NDC 71209-045-04: 20 mg. Pink, round, biconvex, film coated tablets, debossed with "C20" on one side and plain on other side.; bottles of 90 tablets
- NDC 71209-046-01: 40 mg. Pink, oval, biconvex, film coated tablets, debossed with "C40" on one side and plain on other side.; bottles of 30 tablets

### **Storage**

Store at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature]. Protect from moisture.

## **17 PATIENT COUNSELING INFORMATION**

Advise the patient to read the FDA-approved patient labeling (Patient Information).

Patients should be instructed not to take 2 doses of rosuvastatin calcium tablets within 12 hours of each other.

### **Skeletal Muscle Effects**

Patients should be advised to report promptly unexplained muscle pain, tenderness, or weakness, particularly if accompanied by malaise or fever or if these muscle signs or symptoms persist after discontinuing rosuvastatin calcium tablets.

### **Concomitant Use of Antacids**

When taking rosuvastatin calcium tablets with an aluminum and magnesium hydroxide combination antacid, the antacid should be taken at least 2 hours after rosuvastatin calcium tablets administration.

### **Embryofetal Toxicity**

Advise females of reproductive potential of the risk to a fetus, to use effective contraception during treatment, and to inform their healthcare provider of a known or suspected pregnancy. [see *Contraindications (4) and Use in Specific Populations (8.1, 8.3)*].

### **Lactation**

Advise women not to breastfeed during treatment with rosuvastatin calcium tablets [see *Contraindications (4) and Use in Specific Populations (8.2)*].

### **Liver Enzymes**

It is recommended that liver enzyme tests be performed before the initiation of rosuvastatin calcium tablets and if signs or symptoms of liver injury occur. All patients treated with rosuvastatin calcium tablets should be advised to promptly report any symptoms that may indicate liver injury, including fatigue, anorexia, right upper abdominal discomfort, dark urine or jaundice.

Manufactured by:

Cadila Pharmaceuticals Limited

1389, Dholka, District - Ahmedabad,

Gujarat State, INDIA

Revised: February, 2019

## 17.2 FDA-Approved Patient Labeling

### PATIENT INFORMATION

Rosuvastatin Calcium Tablets

(Roe-SOO-va-STAT-in KAL-see-um)

Read this Patient Information carefully before you start taking rosuvastatin calcium tablets and each time you get a refill. If you have any questions about rosuvastatin calcium tablets, ask your doctor. Only your doctor can determine if rosuvastatin calcium tablets are right for you.

#### What is rosuvastatin calcium tablet?

Rosuvastatin calcium tablet is a prescription medicine that contains a cholesterol-lowering medicine called rosuvastatin calcium. Most of the cholesterol in your blood is made in the liver. Rosuvastatin calcium tablets work by reducing cholesterol in two ways: rosuvastatin calcium tablets block an enzyme in the liver causing the liver to make less cholesterol, and rosuvastatin calcium tablets increase the uptake and breakdown by the liver of cholesterol already in the blood.

- Rosuvastatin calcium tablets are used along with diet to:
  - lower the level of your "bad" cholesterol (LDL)
  - increase the level of your "good" cholesterol (HDL)
  - lower the level of fat in your blood (triglycerides)
- Rosuvastatin calcium tablets are used to treat:
  - adults who cannot control their cholesterol levels by diet and exercise alone

It is not known if rosuvastatin calcium tablets are safe and effective in people who have Fredrickson Type I and V dyslipidemias.

**Pediatric use information for patients 7 to 17 years of age is approved for AstraZeneca's CRESTOR (rosuvastatin calcium) tablets. However, due to AstraZeneca's marketing exclusivity rights, this drug product is not labeled with that pediatric information.**

#### Who should not take rosuvastatin calcium tablets?

##### Do not take rosuvastatin calcium tablets if you:

- are allergic to rosuvastatin calcium or any of the ingredients in rosuvastatin calcium tablets. See the end of this leaflet for a complete list of ingredients in rosuvastatin calcium tablets.
- have liver problems.
- are pregnant or think you may be pregnant, or are planning to become pregnant. Rosuvastatin calcium tablets may harm your unborn baby. If you become pregnant, stop taking rosuvastatin calcium tablets and call your doctor right away. If you are not planning to become pregnant you should use effective birth control (contraception) while you are taking rosuvastatin calcium tablets.
- are breastfeeding. Medicines like rosuvastatin calcium can pass into your breast milk and may harm your baby.

#### What should I tell my doctor before and while taking rosuvastatin calcium tablets?

**Tell your doctor if you:**

- have unexplained muscle aches or weakness
- have or have had kidney problems
- have or have had liver problems
- drink more than 2 glasses of alcohol daily
- have thyroid problems
- are 65 years of age or older
- are of Asian descent
- are pregnant or think you may be pregnant, or are planning to become pregnant
- are breastfeeding

**Tell your doctor about all the medicines you take**, including prescription and over-the-counter medicines, vitamins, and herbal supplements.

Talk to your doctor before you start taking any new medicines.

Taking rosuvastatin calcium tablets with certain other medicines may affect each other causing side effects. Rosuvastatin calcium tablets may affect the way other medicines work, and other medicines may affect how rosuvastatin calcium tablets works.

Especially tell your doctor if you take:

- cyclosporine (a medicine for your immune system)
- gemfibrozil (a fibric acid medicine for lowering cholesterol)
- anti-viral medicines including HIV or hepatitis C protease inhibitors (such as lopinavir, ritonavir, fosamprenavir, tipranavir, atazanavir, or simeprevir)
- certain anti-fungal medicines (such as itraconazole, ketoconazole and fluconazole)
- coumarin anticoagulants (medicines that prevent blood clots, such as warfarin)
- niacin or nicotinic acid
- fibric acid derivatives (such as fenofibrate)
- colchicine (a medicine used to treat gout)

Ask your doctor or pharmacist for a list of these medicines if you are not sure.

Know all of the medicines you take. Keep a list of them to show your doctor and pharmacist when you get new medicine.

**How should I take rosuvastatin calcium tablets?**

- Take rosuvastatin calcium tablets exactly as your doctor tells you to take it.
- Take rosuvastatin calcium tablets, by mouth, 1 time each day. Swallow the tablet whole.
- Rosuvastatin calcium tablets can be taken at any time of day, with or without food.
- **Do not** change your dose or stop rosuvastatin calcium tablets without talking to your doctor, even if you are feeling well.
- Your doctor may do blood tests to check your cholesterol levels before and during your treatment with rosuvastatin calcium tablets. Your doctor may change your dose of rosuvastatin calcium tablets if needed.
- Your doctor may start you on a cholesterol lowering diet before giving you rosuvastatin calcium tablets. Stay on this diet when you take rosuvastatin calcium tablets.
- Wait at least 2 hours after taking rosuvastatin calcium tablets to take an antacid that contains a combination of aluminum and magnesium hydroxide.
- If you miss a dose of rosuvastatin calcium tablets, take it as soon as you remember. However, **do not take 2 doses of rosuvastatin calcium tablets within 12 hours of each other.**
- If you take too much rosuvastatin calcium tablets or overdose, call your doctor or go to the nearest hospital emergency room right away.

## What are the Possible Side Effects of rosuvastatin calcium tablets?

Rosuvastatin calcium tablets may cause serious side effects, including:

- **Muscle pain, tenderness and weakness (myopathy).** Muscle problems, including muscle breakdown, can be serious in some people and rarely cause kidney damage that can lead to death.

**Tell your doctor right away if:**

- **you have unexplained muscle pain, tenderness, or weakness, especially if you have a fever or feel more tired than usual, while you take rosuvastatin calcium tablets.**
- you have muscle problems that do not go away even after your doctor has told you to stop taking rosuvastatin calcium tablets. Your doctor may do further tests to diagnose the cause of your muscle problems.

Your chances of getting muscle problems are higher if you:

- are taking certain other medicines while you take rosuvastatin calcium tablets
- are 65 years of age or older
- have thyroid problems (hypothyroidism) that are not controlled
- have kidney problems
- are taking higher doses of rosuvastatin calcium tablets
- **Liver problems.** Your doctor should do blood tests to check your liver before you start taking rosuvastatin calcium tablets and if you have symptoms of liver problems while you take rosuvastatin calcium tablets. Call your doctor right away if you have any of the following symptoms of liver problems:
  - feel unusually tired or weak
  - loss of appetite
  - upper belly pain
  - dark urine
  - yellowing of your skin or the whites of your eyes

**The most common side effects may include:** headache, muscle aches and pains, abdominal pain, weakness, and nausea.

Additional side effects that have been reported with rosuvastatin calcium tablets include memory loss and confusion.

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

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

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

### How Should I Store rosuvastatin calcium tablets?

- Store rosuvastatin calcium tablets at room temperature, between 68°F to 77°F (20 to 25°C) and in a dry place.
- Safely throw away medicine that is out of date or no longer needed.

**Keep rosuvastatin calcium tablets and all medicines out of the reach of children.**

### What are the Ingredients in rosuvastatin calcium tablets?

**Active Ingredient:** rosuvastatin as rosuvastatin calcium

**Inactive Ingredients:** 5 mg tablet - microcrystalline cellulose, lactose monohydrate, crospovidone, magnesium stearate, hypromellose, titanium dioxide, triacetin, iron oxide yellow, sodium hydrogen carbonate; 10 mg, 20 mg and 40 mg tablet - microcrystalline cellulose, lactose monohydrate, crospovidone, magnesium stearate, hypromellose, titanium dioxide, triacetin, iron oxide red, sodium

hydrogen carbonate.

**General Information about the safe and effective use of rosuvastatin calcium tablets**

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

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

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

Manufactured by:

Cadila Pharmaceuticals Limited  
1389, Dholka, District - Ahmedabad,  
Gujarat State, INDIA

For more information, go to the website at [www.cadilapharma.com](http://www.cadilapharma.com) or call 1-202-355-9785.

Rev. February, 2019

**SPL PATIENT PACKAGE INSERT SECTION**

.

**PACKAGE LABEL.PRINCIPAL DISPLAY PANEL**

**Package/Label Display Panel - 5 mg**

71209-043-04

**Rosuvastatin**

**Calcium Tablets**

**5 mg\***

**Rx only**

90 Tablets



\*Each tablet contains rosuvastatin calcium equivalent to 5 mg of rosuvastatin.

**USUAL DOSAGE:**  
See accompanying Prescribing Information.

**WARNING:**  
As with all medications, keep out of the reach of children.  
Store at 20° to 25°C (68° to 77°F) [See USP Controlled Room Temperature].  
Protect from moisture.  
Manufactured by:  
**CADILA PHARMACEUTICALS LTD.**  
1389, Dholka, Dist. Ahmedabad, Gujarat State, INDIA.


71209-043-04

**Rosuvastatin Calcium Tablets**

**5 mg\***

**Rx only**

90 Tablets



JXXX

*Unvarnished Area 50 x 25 mm  
Space for serialized datamatrix code and batch coding.*

**Package/Label Display Panel - 10 mg**

71209-044-04

**Rosuvastatin Calcium Tablets**

**10 mg\***

**Rx only**

90 Tablets

\*Each tablet contains rosuvastatin calcium equivalent to 10 mg of rosuvastatin.

**USUAL DOSAGE:**  
See accompanying Prescribing Information.

**WARNING:**  
As with all medications, keep out of the reach of children.  
Store at 20° to 25°C (68° to 77°F) [See USP Controlled Room Temperature].  
Protect from moisture.  
Manufactured by:  
**CADILA PHARMACEUTICALS LTD.**  
1389, Dholka, Dist. Ahmedabad, Gujarat State, INDIA.


71209-044-04

**Rosuvastatin Calcium Tablets**

**10 mg\***

**Rx only**

90 Tablets



JXXX

*Unvarnished Area 50 x 25 mm  
Space for serialized datamatrix code and batch coding.*

**Package/Label Display Panel - 20 mg**

71209-045-04

**Rosuvastatin  
Calcium Tablets**  
**20 mg\***  
**Rx only**  
90 Tablets

\*Each tablet contains rosuvastatin calcium equivalent to 20 mg of rosuvastatin.

**USUAL DOSAGE:**  
See accompanying Prescribing Information.

**WARNING:**  
As with all medications, keep out of the reach of children.  
Store at 20° to 25°C (68° to 77°F) [See USP Controlled Room Temperature].  
Protect from moisture.

Manufactured by:  
**CADILA PHARMACEUTICALS LTD.**  
1389, Dholka, Dist. Ahmedabad,  
Gujarat State, INDIA.

71209-045-04

**Rosuvastatin  
Calcium Tablets**

**20 mg\***

**Rx only**

90 Tablets

N 3 71209 04504 9

JXXX

*Unvarnished Area 50 x 25 mm  
Space for serialized datamatrix  
code and batch coding.*

**Package/Label Display Panel - 40 mg**

71209-046-01

**Rosuvastatin  
Calcium Tablets**  
**40 mg\***  
**Rx only**  
90 Tablets


71209-046-01

**Rosuvastatin  
Calcium Tablets**

**40 mg\***

**Rx only**

30 Tablets



JXXX

N 3 712091046015

Unvarnished Area 50 x 25 mm  
Space for serialized datamatrix  
code and batch coding.

\*Each tablet contains rosuvastatin calcium equivalent to 40 mg of rosuvastatin.

**USUAL DOSAGE:**  
See accompanying Prescribing Information.

**WARNING:**  
As with all medications, keep out of the reach of children.

Store at 20° to 25°C (68° to 77°F) [See USP Controlled Room Temperature].

Protect from moisture.

Manufactured by:  
**CADILA PHARMACEUTICALS LTD.**  
1389, Dholka, Dist. Ahmedabad, Gujarat State, INDIA.

## ROSUVASTATIN CALCIUM

rosuvastatin calcium tablet, film coated

### Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:71209-043
<b>Route of Administration</b>	ORAL		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
ROSUVASTATIN CALCIUM (UNII: 83MVU38M7Q) (ROSUVASTATIN - UNII:413KH5ZJ73)	ROSUVASTATIN	5 mg

### Inactive Ingredients

Ingredient Name	Strength
CELLULOSE, MICROCRYSTALLINE (UNII: OP1R32D61U)	
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)	
SODIUM BICARBONATE (UNII: 8MDF5V39QO)	
CROSPVIDONE (UNII: 68401960MK)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
FERRIC OXIDE YELLOW (UNII: EX438O2MRT)	
HYPROMELLOSE 2910 (6 MPA.S) (UNII: 0WZ8WG20P6)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
TRACETIN (UNII: XHX3C3X673)	

### Product Characteristics

<b>Color</b>	YELLOW	<b>Score</b>	no score
<b>Shape</b>	ROUND	<b>Size</b>	6mm

<b>Flavor</b>		<b>Imprint Code</b>	C9
<b>Contains</b>			
<b>Packaging</b>			
<b>#</b>	<b>Item Code</b>	<b>Package Description</b>	<b>Marketing Start Date</b>
1	NDC:71209-043-04	90 in 1 BOTTLE; Type 0: Not a Combination Product	11/21/2018
<b>Marketing Information</b>			
<b>Marketing Category</b>	<b>Application Number or Monograph Citation</b>	<b>Marketing Start Date</b>	<b>Marketing End Date</b>
ANDA	ANDA207453	03/24/2017	

## ROSUVASTATIN CALCIUM

rosuvastatin calcium tablet, film coated

<b>Product Information</b>			
<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:71209-044
<b>Route of Administration</b>	ORAL		
<b>Active Ingredient/Active Moiety</b>			
	<b>Ingredient Name</b>	<b>Basis of Strength</b>	<b>Strength</b>
	ROSUVASTATIN CALCIUM (UNII: 83MVU38M7Q) (ROSUVASTATIN - UNII:413KH5ZJ73)	ROSUVASTATIN	10 mg
<b>Inactive Ingredients</b>			
	<b>Ingredient Name</b>		<b>Strength</b>
	CELLULOSE, MICROCRYSTALLINE (UNII: OP1R32D61U)		
	LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)		
	SODIUM BICARBONATE (UNII: 8MDF5V39QO)		
	CROSPVIDONE (UNII: 68401960MK)		
	MAGNESIUM STEARATE (UNII: 70097M6I30)		
	HYPROMELLOSE 2910 (6 MPAS) (UNII: 0WZ8WG20P6)		
	TITANIUM DIOXIDE (UNII: 15FIX9V2JP)		
	TRIACETIN (UNII: XHX3C3X673)		
	FERRIC OXIDE RED (UNII: 1K09F3G675)		
<b>Product Characteristics</b>			
<b>Color</b>	PINK	<b>Score</b>	no score
<b>Shape</b>	ROUND	<b>Size</b>	7mm
<b>Flavor</b>		<b>Imprint Code</b>	C10
<b>Contains</b>			

**Packaging**

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:71209-044-04	90 in 1 BOTTLE; Type 0: Not a Combination Product	11/21/2018	

**Marketing Information**

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA207453	03/24/2017	

**ROSUVASTATIN CALCIUM**

rosuvastatin calcium tablet, film coated

**Product Information**

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:71209-045
Route of Administration	ORAL		

**Active Ingredient/Active Moiety**

Ingredient Name	Basis of Strength	Strength
ROSUVASTATIN CALCIUM (UNII: 83MVU38M7Q) (ROSUVASTATIN - UNII:413KH5ZJ73)	ROSUVASTATIN	20 mg

**Inactive Ingredients**

Ingredient Name	Strength
CELLULOSE, MICROCRYSTALLINE (UNII: OP1R32D61U)	
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)	
SODIUM BICARBONATE (UNII: 8MDF5V39QO)	
CROSPVIDONE (UNII: 68401960MK)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
HYPROMELLOSE 2910 (6 MPA.S) (UNII: 0WZ8WG20P6)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
TRIACETIN (UNII: XHX3C3X673)	
FERRIC OXIDE RED (UNII: 1K09F3G675)	

**Product Characteristics**

Color	PINK	Score	no score
Shape	ROUND	Size	9mm
Flavor		Imprint Code	C20
Contains			

**Packaging**

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:71209-045-04	90 in 1 BOTTLE; Type 0: Not a Combination Product	11/21/2018	

## Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA207453	03/24/2017	

## ROSUVASTATIN CALCIUM

rosuvastatin calcium tablet, film coated

### Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:71209-046
Route of Administration	ORAL		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
ROSUVASTATIN CALCIUM (UNII: 83MVU38M7Q) (ROSUVASTATIN - UNII:413KH5ZJ73)	ROSUVASTATIN	40 mg

### Inactive Ingredients

Ingredient Name	Strength
CELLULOSE, MICROCRYSTALLINE (UNII: OP1R32D61U)	
LACTOSE MONOHYDRATE (UNII: EWQ57Q815X)	
SODIUM BICARBONATE (UNII: 8MDF5V39QO)	
CROSPVIDONE (UNII: 68401960MK)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
HYPROMELLOSE 2910 (6 MPAS) (UNII: 0WZ8WG20P6)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
TRIACETIN (UNII: XHX3C3X673)	
FERRIC OXIDE RED (UNII: 1K09F3G675)	

### Product Characteristics

Color	PINK	Score	no score
Shape	OVAL	Size	14mm
Flavor		Imprint Code	C40
Contains			

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:71209-046-01	30 in 1 BOTTLE; Type 0: Not a Combination Product	11/21/2018	

## Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA207453	03/24/2017	

**Labeler** - Cadila Pharmaceuticals Limited (862257719)

### Establishment

Name	Address	ID/FEI	Business Operations
Cadila Pharmaceuticals Limited		918451696	ANALYSIS(71209-043, 71209-044, 71209-045, 71209-046) , LABEL(71209-043, 71209-044, 71209-045, 71209-046) , MANUFACTURE(71209-043, 71209-044, 71209-045, 71209-046) , PACK(71209-043, 71209-044, 71209-045, 71209-046)

Revised: 9/2019

Cadila Pharmaceuticals Limited