

# PRUCALOPRIDE- prucalopride tablet, film coated

## Lupin Pharmaceuticals, Inc.

### HIGHLIGHTS OF PRESCRIBING INFORMATION

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

PRUCALOPRIDE tablets, for oral use  
Initial U.S. Approval: 2018

### INDICATIONS AND USAGE

Prucalopride tablets are a serotonin-4 (5-HT<sub>4</sub>) receptor agonist indicated for the treatment of chronic idiopathic constipation (CIC) in adults. (1)

### DOSAGE AND ADMINISTRATION

- Take with or without food. (2).
- Recommended dosage by patient population:

Population with CIC	Recommended Oral Dose Regimen
Adults	2 mg once daily (2)
Patients with severe renal impairment (creatinine clearance (CrCL) less than 30 mL/min)	1 mg once daily (2, 8.5, 8.6)].

### DOSAGE FORMS AND STRENGTHS

Tablets: 1 mg, 2 mg of prucalopride (3)

### CONTRAINDICATIONS

- Hypersensitivity to Prucalopride (4)
- Intestinal perforation or obstruction due to structural or functional disorder of the gut wall, obstructive ileus, severe inflammatory conditions of the intestinal tract such as Crohn's disease, ulcerative colitis, and toxic megacolon/megarectum. (4)

### WARNINGS AND PRECAUTIONS

Suicidal Ideation and Behavior: Monitor patients for suicidal ideation and behavior as well as self-injurious ideation and new-onset or worsening of depression. Instruct patients to discontinue prucalopride tablets immediately and contact their healthcare provider if they experience any unusual changes in mood or behavior, or they experience emerging suicidal thoughts or behaviors. (5)

### ADVERSE REACTIONS

Most common adverse reactions ( $\geq 2\%$ ) are headache, abdominal pain, nausea, diarrhea, abdominal distension, dizziness, vomiting, flatulence, and fatigue. (6.1) (6)

**To report SUSPECTED ADVERSE REACTIONS, contact Lupin Pharmaceuticals, Inc. at 1-800-399-2561 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch). (6)**

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

Revised: 1/2026

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## FULL PRESCRIBING INFORMATION

### 1 INDICATIONS AND USAGE

Prucalopride tablets are indicated for the treatment of chronic idiopathic constipation (CIC) in adults.

### 2 DOSAGE AND ADMINISTRATION

Prucalopride tablets can be taken with or without food. The recommended dosage by patient population is shown in Table 1.

**Table 1: Recommended Dosage Regimen and Dosage Adjustments by Population**

<b>Population with CIC</b>	<b>Recommended Oral Dose Regimen</b>
Adults	2 mg once daily
Patients with severe renal impairment (creatinine clearance (CrCL) less than 30 mL/min) [see Use in Specific Populations (8.5, 8.6)].	1 mg once daily

### **3 DOSAGE FORMS AND STRENGTHS**

Prucalopride Tablets:

- 1 mg prucalopride: Yellow colored, round shaped, film coated tablets, debossed with "J" on one side and "7" on other side.
- 2 mg prucalopride: White colored, round shaped, film coated tablets, debossed with "J" on one side and "6" on other side.

### **4 CONTRAINDICATIONS**

Prucalopride tablets are contraindicated in patients with:

- A history of hypersensitivity to prucalopride. Reactions including dyspnea, rash, pruritus, urticaria, and facial edema have been observed [see *Adverse Reactions (6.2)*].
- Intestinal perforation or obstruction due to structural or functional disorder of the gut wall, obstructive ileus, severe inflammatory conditions of the intestinal tract such as Crohn's disease, ulcerative colitis, and toxic megacolon/megarectum.

### **5 WARNINGS AND PRECAUTIONS**

#### **5.1 Suicidal Ideation and Behavior**

In clinical trials, suicides, suicide attempts, and suicidal ideation have been reported. Postmarketing cases of suicidal ideation and behavior as well as self-injurious ideation and new onset or worsening of depression have been reported within the first few weeks of starting prucalopride tablets [see *Adverse Reactions (6.1, 6.2)*].

A causal association between treatment with prucalopride tablets and an increased risk of suicidal ideation and behavior has not been established.

Monitor all patients treated with prucalopride tablets for new onset or worsening of depression or the emergence of suicidal thoughts and behaviors. Counsel patients, their caregivers, and family members of patients to be aware of any unusual changes in mood or behavior and alert the healthcare provider. Instruct patients to discontinue prucalopride tablets immediately and contact their healthcare provider if they experience any of these symptoms.

### **6 ADVERSE REACTIONS**

#### **6.1 Clinical Trials Experience**

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

The data described below represent 2,530 patients (1,251 received prucalopride tablets 2 mg once daily and 1,279 received placebo) with CIC from 6 double-blind, placebo-controlled clinical trials of 12 weeks to 24 weeks in duration. In these trials overall, patients were primarily female (76%) and white (76%). The mean age was 47 years (range 17 to 95 years) [see *Clinical Studies (14)*].

## **Common Adverse Reactions**

Table 2 below summarizes the incidence (%) of common adverse reactions occurring in at least 2% of patients with CIC receiving either 2 mg of prucalopride tablets once daily or placebo and at an incidence greater than in the placebo group from the six double-blind placebo-controlled trials described above.

**Table 2: Common Adverse Reactions\* in Double-Blind Placebo-Controlled Trials of CIC of at least 12 Weeks Duration**

<b>Adverse Reaction</b>	<b>Prucalopride Tablets 2 mg Once Daily N=1,251<sup>†</sup> %</b>	<b>Placebo N=1,279 %</b>
Headache	19	9
Abdominal pain <sup>‡</sup>	16	11
Nausea	14	7
Diarrhea	13	5
Abdominal distension	5	4
Dizziness	4	2
Vomiting	3	2
Flatulence	3	2
Fatigue	2	1

\* Reported in  $\geq 2\%$  of patients receiving prucalopride tablets and a rate higher than patients receiving placebo.

<sup>†</sup> Includes 93 patients who started on prucalopride tablets 1 mg and increased to prucalopride tablets 2 mg.

<sup>‡</sup> Includes abdominal pain, upper abdominal pain, lower abdominal pain, abdominal tenderness, abdominal discomfort, and epigastric discomfort.

## **Less Common Adverse Reactions**

Less common adverse reactions occurring in  $<2\%$  of patients receiving prucalopride tablets 2 mg once daily include:

*Gastrointestinal disorders:* Abnormal gastrointestinal sounds

*Metabolism and nutrition disorders:* Decreased appetite

*Nervous system disorders:* Migraine

*Renal and urinary disorders:* Pollakiuria

### **Diarrhea**

Of the patients who reported diarrhea, 70% (110 out of 157) reported it in the first week of treatment. Diarrhea typically resolved within a few days in 73% (80 out of 110) of those patients. Severe diarrhea was reported in 1.8% of patients treated with prucalopride tablets 2 mg compared to 1% of patients in the placebo group, and had a similar onset and duration as diarrhea overall.

### **Headache**

Of the patients who reported headache, 66% (157 out of 237) treated with prucalopride tablets 2 mg once daily reported onset in the first 2 days of treatment. Symptoms typically resolved within a few days in 65% (102 out of 157) of those patients.

### ***Adverse Reactions Leading to Discontinuation***

In the 6 clinical trials described above, 5% of patients treated with 2 mg of prucalopride tablets once daily discontinued due to adverse reactions, compared to 3% of patients in the placebo group. The most common adverse reactions leading to discontinuation were nausea (2% Prucalopride tablets, 1% placebo), headache (1% Prucalopride tablets, 1% placebo), diarrhea (1% Prucalopride tablets, <1% placebo), or abdominal pain (1% Prucalopride tablets, 1% placebo).

### ***Adverse Reactions of Special Interest***

Adverse reactions of special interest were evaluated in a pool of 28 completed clinical trials (19 double-blind and 9 open-label) for prucalopride tablets at doses including 0.5 mg, 1 mg, 2 mg, or 4 mg per day in adult patients with CIC (the recommended dosage of prucalopride tablets for CIC is 2 mg once daily). The total exposure in the double-blind trials was 565 patient-years in the prucalopride tablets group, 384 patient-years in the placebo group, and 2,769 patient-years in the double-blind and open-label clinical trials.

### ***Cardiovascular Safety Analysis***

In an evaluation by an independent adjudication committee of all potential major adverse cardiovascular events (MACE), defined as cardiovascular death, nonfatal myocardial infarction, and nonfatal stroke, the standardized incidence rate (IR) per 1,000 patient-years for MACE for prucalopride was compared with the IR for placebo.

In the double-blind trials, the IR for MACE was 3.5 (2 patients out of 3,366; 1 patient on 2 mg and 1 patient on 4 mg) in the prucalopride tablets group and 5.2 (2 patients out of 2,019) in the placebo group. When combining the double-blind and open-label trials, the IR for MACE was 3.3 (9 patients out of 4,472, doses ranging between 0.5 to 4 mg) for prucalopride tablets.

### ***Suicidal Ideation and Behavior:***

In the double-blind trials, one patient reported a suicide attempt 7 days after the end of treatment with prucalopride tablets 2 mg once daily; none were reported in patients on placebo. In the open-label trials, two patients reported a suicide attempt and another patient reported suicidal ideation. Completed suicide was reported in two patients, previously treated with prucalopride tablets 2 mg or 4 mg; both discontinued prucalopride tablets for at least one month prior to the event.

### ***Observational Cardiovascular Cohort Study***

The overall cardiovascular safety of prucalopride was assessed using European healthcare databases in a population-based, retrospective, observational, cohort study of adults with constipation. New users of prucalopride tablets (N=5,715) were matched to new users of polyethylene glycol 3350 (PEG) (N=29,372) to estimate the standardized incidence rate ratio (SIRR) for MACE, pooled across four data sources. The 95% confidence interval for the pooled estimate of the SIRR did not demonstrate an increased MACE risk and excluded a pre-specified safety margin of a three-fold risk of MACE during prucalopride use relative to PEG use.

## 6.2 Postmarketing Experience

The following adverse reactions have been identified during post-approval use of prucalopride. 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.

*Hypersensitivity reactions:* Dyspnea, rash, pruritus, urticaria, and facial edema [see *Contraindications (4)*].

*Psychiatric disorders:* Suicide, suicide attempts, suicidal ideation, self-injurious ideation, depression, anxiety, insomnia, nightmares, and visual hallucinations [see *Warnings and Precautions (5.1)*].

## 8 USE IN SPECIFIC POPULATIONS

### 8.1 PREGNANCY

#### **Risk Summary**

Available data from case reports with prucalopride use in pregnant women are insufficient to identify any drug-associated risks of miscarriage, major birth defects, or adverse maternal or fetal outcomes. In animal reproduction studies, no adverse developmental effects were observed with prucalopride administration during the period of organogenesis to pregnant rats and rabbits at doses up to approximately 390 times and 780 times, respectively, the recommended human dose of 2 mg/day (see *Data*).

The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. 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**

##### **Animal Data**

In oral embryofetal development studies in rats and rabbits, prucalopride was administered to pregnant animals at doses of 5, 20, and 80 mg/kg/day throughout the period of organogenesis. No adverse embryofetal developmental effects were observed in either rats or rabbits up to the highest oral dose of 80 mg/kg/day (about 390 times and 780 times the recommended human dose of 2 mg/day, respectively, based on body surface area).

In an oral pre- and post-natal development study in rats, prucalopride was administered at doses of 5, 20, and 80 mg/kg/day. At the 80-mg/kg dose (about 390 times the recommended human dose of 2 mg/day, based on body surface area), a slight decrease in overall survival rate of pups after 7 days was observed, which could be due to maternal toxicity observed at this dose.

### 8.2 Lactation

#### **Risk Summary**

Prucalopride is present in breast milk (see *Data*). There are no data on the effects of

prucalopride on the breastfed child or the effects on milk production. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for prucalopride tablets and any potential adverse effects on the breastfed child from prucalopride tablets or from the underlying maternal condition.

### **Data**

In an open-label study in 8 healthy lactating women in the weaning stage, plasma and milk samples were collected at predose (day 1 and 4), and then 2, 4, 8, 12, and 24 hours (day 4) after a 2-mg dose of prucalopride was administered once daily for 4 days. Prucalopride is excreted in breast milk with a milk to plasma AUC ratio of 2.65:1; the average amount passed to the infant was estimated to be 1.74 mcg/kg/day, which is about 6% of the maternal dose, adjusted for body weight. The prucalopride concentration detected in breast milk during weaning may not reflect the prucalopride concentration in breast milk during full milk production.

### **8.4 Pediatric Use**

The safety and effectiveness of prucalopride tablets have not been established in pediatric patients.

*Pediatric information describing a clinical study in which efficacy was not demonstrated is approved for Takeda Pharmaceuticals U.S.A., Inc's MOTEGRITY (prucalopride) tablets. However, due to Takeda Pharmaceuticals U.S.A., Inc's marketing exclusivity rights, this drug product is not labeled with that information.*

### **8.5 Geriatric Use**

Of the 2,484 patients treated with Prucalopride tablets 1 mg or 2 mg once daily in 6 controlled trials of at least 12-week duration in patients with CIC, 15% were 65 years of age and over, and 5% were 75 years of age and over [see *Clinical Studies (14)*]. No overall differences in safety and effectiveness were observed between elderly and younger patients.

In an additional 4-week double-blind, placebo-controlled dose escalation study in 89 elderly nursing home residents with CIC (PRU-USA-26, NCT00627692), no unanticipated safety issues were identified.

Elderly subjects had higher prucalopride exposure compared to younger subjects. However, the effect of age on the pharmacokinetics of prucalopride appeared to be related to decreased renal function [see *Clinical Pharmacology (12.3)*]. Adjust the dosage in elderly patients based on renal function [see *Dosage and Administration (2)*, *Use in Specific Populations (8.6)*].

### **8.6 Renal Impairment**

No dosage adjustment is required for patients with mild and moderate renal impairment (creatinine clearance at least 30 mL/min, as determined from a 24-hour urine collection in the clinical trial).

Prucalopride is known to be substantially excreted by the kidney, and the risk of adverse reactions may be greater in patients with impaired renal function. A decreased dosage is recommended in patients with severe renal impairment (creatinine clearance less than 30 mL/min, as determined from a 24-hour urine collection in the clinical trial) [see *Dosage*

and Administration (2)].

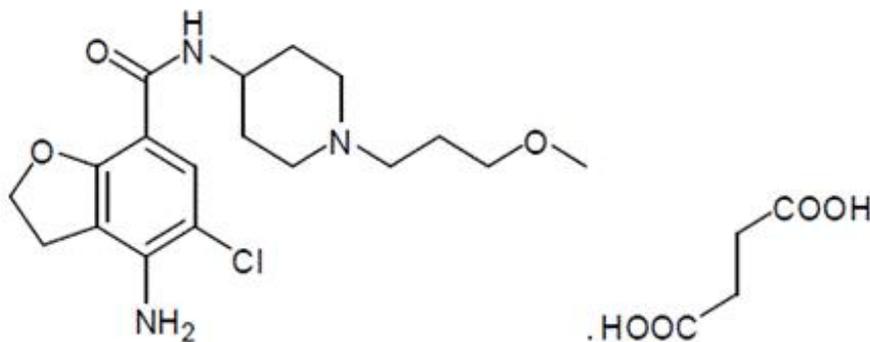
Avoid prucalopride tablets in patients with end-stage renal disease requiring dialysis [see *Clinical Pharmacology (12.3)*].

## 10 OVERDOSAGE

An overdose may result in appearance of symptoms from an exaggeration of the known pharmacodynamic effects of prucalopride and includes headache, nausea, and diarrhea. Specific treatment is not available for prucalopride overdose. Should an overdose occur, treat symptomatically and institute supportive measures, as required. Extensive fluid loss from diarrhea or vomiting may require correction of electrolyte disturbances.

## 11 DESCRIPTION

Prucalopride tablets for oral use contain prucalopride succinate, a dihydrobenzofurancarboxamide that is a serotonin type 4 (5-HT<sub>4</sub>) receptor agonist. The IUPAC name is: 4-Amino-5-chloro -N- [1-(3-methoxy propyl)piperidin-4-yl] -2, 3- dihydro -1- benzofuran -7-carboxamide succinate.. The molecular formula is C<sub>22</sub>H<sub>32</sub>ClN<sub>3</sub>O<sub>7</sub> and the molecular weight is 485.96. The structural formula is:



Prucalopride succinate is a white to almost white powder. It is highly soluble in acidic aqueous media and alkaline aqueous media up to a pH of approximately 9.

Each 1-mg film-coated tablet contains 1 mg of prucalopride (equivalent to 1.32 mg prucalopride succinate), and the following inactive ingredients: lactose monohydrate, magnesium stearate, microcrystalline cellulose and silica, colloidal anhydrous. The coating for the 1-mg tablet contains hypromellose, iron oxide yellow, lactose monohydrate, talc, titanium dioxide and triacetin.

Each 2-mg film-coated tablet contains 2 mg of prucalopride (equivalent to 2.64 mg prucalopride succinate), and the following inactive ingredients: lactose monohydrate, magnesium stearate, microcrystalline cellulose and silica, colloidal anhydrous.. The coating for the 2-mg tablet contains hypromellose, lactose monohydrate, titanium dioxide and triacetin.

## **12 CLINICAL PHARMACOLOGY**

### **12.1 MECHANISM OF ACTION**

Prucalopride, a selective serotonin type 4 (5-HT<sub>4</sub>) receptor agonist, is a gastrointestinal (GI) prokinetic agent that stimulates colonic peristalsis (high-amplitude propagating contractions [HAPCs]), which increases bowel motility.

Prucalopride was devoid of effects mediated via 5-HT<sub>2A</sub>, 5-HT<sub>2B</sub>, 5-HT<sub>3</sub>, motilin or CCK-A receptors *in vitro* at concentrations exceeding 5-HT<sub>4</sub> receptor affinity by 150-fold or greater. In isolated GI tissues from various animal species, prucalopride facilitated acetylcholine release to enhance the amplitude of contractions and stimulate peristalsis. In rats and dogs, prucalopride stimulated gastrointestinal motility with contractions starting from the proximal colon to the anal sphincter.

### **12.2 PHARMACODYNAMICS**

#### ***High Amplitude Propagating Contractions***

Following a single 2-mg dose of prucalopride in patients with CIC, prucalopride increased the number of high amplitude propagating contractions (HAPCs) during the first 12 hours as compared with an osmotic laxative treatment. In addition, prucalopride 4 mg once daily (2 times the maximum human recommended dose of 2 mg) for 7 days increased the amplitude of HAPCs in healthy subjects without affecting colonic phasic activity as compared with placebo.

#### ***Colonic Transit Time***

An integrated analysis of 3 randomized, placebo-controlled, dose-finding studies in 280 patients with CIC showed that after once daily treatment with 2 mg of prucalopride, the mean colonic transit time was reduced by 12 hours from a baseline of 65 hours for prucalopride 2 mg, compared to an increase of 0.5 hours from a baseline of 66 hours in the placebo group.

#### ***Cardiac Electrophysiology***

At a dose 5 times the maximum approved recommended dose, Prucalopride does not prolong the QT interval to any clinically relevant extent.

### **12.3 PHARMACOKINETICS**

The pharmacokinetics of prucalopride has been evaluated in healthy subjects and is dose-proportional within and beyond the therapeutic range (tested up to 20 mg, 10 times the maximum approved recommended dose). Prucalopride administered once daily displays time-independent kinetics during prolonged treatment. With once daily administration of 2 mg prucalopride, pharmacokinetic steady-state is attained within 3 to 4 days, and steady-state plasma concentrations fluctuate between trough and peak values of 2.5 and 7 ng/mL, respectively, with mean plasma AUC<sub>0 to 24h</sub> of 109 ng•h/mL. The accumulation ratio after once daily dosing ranged from 1.9 to 2.3. The terminal half-life is approximately 1 day.

Pharmacokinetic parameters in patients with CIC are similar to those seen in healthy subjects.

## **Absorption**

Following a single oral dose of 2 mg prucalopride in healthy subjects, peak plasma concentrations are observed within 2 to 3 hours after administration. The absolute oral bioavailability is >90%.

## **Effect of Food:**

Concomitant intake with a high-fat meal (1,000 kcal total, 500 kcal from fat) does not influence the oral bioavailability of prucalopride [see *Dosage and Administration (2)*].

## **Distribution**

Prucalopride has a steady-state volume of distribution ( $V_{SS}$ ) of 567 liters after intravenous administration. The plasma protein binding of prucalopride is approximately 30%.

## **Elimination**

Renal excretion is the main route of elimination of prucalopride. Non-renal elimination contributes up to about 35% of the total. The plasma clearance of prucalopride averages 317 mL/min.

## **Metabolism:**

Prucalopride is a substrate of CYP3A4, *in vitro*. In an oral dose study with radiolabeled prucalopride in healthy subjects, prucalopride made up 92 to 94% of the total radioactivity in plasma. There are 7 different known minor metabolites, the most abundant metabolite (O-desmethyl prucalopride acid) represents 0 to 1.7% of the total plasma exposure.

## **Excretion:**

Following oral administration of radiolabeled prucalopride in healthy subjects, 60 to 65% of the administered dose is excreted unchanged in urine and about 5% in feces. On average, 84.2% of administered radioactive dose was recovered in urine and 13.3% of the dose was recovered in feces. Seven metabolites were recovered in urine and feces, with the most abundant metabolite (O-desmethyl prucalopride acid) accounting for 3.2% and 3.1% of the dose in urine and feces, respectively. None of the other metabolites accounted for more than 3% of the dose. Renal elimination of prucalopride involves both passive filtration and active secretion.

## **Use in Specific Populations**

Population pharmacokinetic analysis of a combined study population of 1,343 subjects indicated that there were no clinically significant differences in the pharmacokinetics of prucalopride based on age (17 to 95 years), sex, race (89% white, 7% black, 4% other), or body weight (37 to 161 kg), after accounting for the effect of renal function.

### *Geriatric Patients*

After once daily dosing of 1 mg, peak plasma concentrations ( $C_{max}$ ) and AUC of prucalopride in geriatric subjects were 26% to 28% higher than in younger adult subjects. The effect of age appeared to be related to decreased renal function in the elderly. Additionally, a population pharmacokinetic analysis indicated that age was not a significant covariate, after accounting for the effect of renal function [see *Use in Specific Populations (8.5)*].

### *Patients with Renal Impairment*

After a single 2-mg oral dose, the mean  $AUC_{0 \text{ to } \infty}$  of prucalopride increased 1.23-fold in subjects with mild renal impairment (creatinine clearance 60 to  $\leq 89$  mL/min), 1.4-fold in subjects with moderate renal impairment (creatinine clearance 30 to  $\leq 59$  mL/min), and 2.38-fold in subjects with severe renal impairment (creatinine clearance 15 to  $\leq 29$  mL/min), compared to subjects with normal renal function. The pharmacokinetics of prucalopride in patients with end-stage renal disease or undergoing dialysis is not fully known [see *Dosage and Administration (2)*, *Use in Specific Populations (8.6)*].

### *Patients with Hepatic Impairment*

After a single oral dose of 2 mg,  $C_{\max}$  and AUC of prucalopride were on average 10 to 20% higher in subjects with moderate (Child-Pugh B) and severe (Child-Pugh C) hepatic impairment than in subjects with normal hepatic function. This effect is not considered to be clinically significant.

## **Drug Interaction Studies**

### **Clinical Studies**

#### *Effect of Prucalopride on Other Drugs*

##### *Erythromycin:*

Coadministration of oral erythromycin (500 mg four times daily) with prucalopride increased the erythromycin mean  $C_{\max}$  by 40% and mean  $AUC_{0 \text{ to } 24\text{h}}$  by 28%. The mechanism for this interaction is not clear. The increased exposure to erythromycin is unlikely to be clinically significant.

##### *Other Drugs*

No clinically significant differences in the pharmacokinetics (no more than a 10% change in AUC) of the following drugs were observed when coadministered with prucalopride: warfarin, digoxin, paroxetine, or oral contraceptives (ethinyl estradiol and norethisterone).

#### *Effect of Other Drugs on Prucalopride*

##### *Ketoconazole:*

Ketoconazole (200 mg twice daily), a strong CYP3A inhibitor and inhibitor of P-gp and BCRP, increased the  $C_{\max}$  and AUC of prucalopride by approximately 40%. This effect is unlikely to be clinically significant.

##### *Other Drugs:*

No clinically significant differences in prucalopride pharmacokinetics (no more than a 10% change in AUC) were observed when coadministered with erythromycin, probenecid, cimetidine, or paroxetine.

### **In Vitro Studies:**

Based on in vitro study results, the potential for prucalopride to inhibit CYP enzymes (1A2, 2A6, 2B6, 2C8, 2C9, 2C19, 2D6, 2E1, and 3A4) and transporters (P-gp, BCRP, OATP1B1, OATP1B3, OAT1, OAT3, OCT1, OCT2, MATE1, MATE2-K, BSEP, and MRP2 transporters) or induce CYP enzymes (1A2, 2B6, and 3A4) is low at the clinical concentration.

## 13 NONCLINICAL TOXICOLOGY

### 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

#### ***Carcinogenesis***

In a 2-year carcinogenicity study in mice, prucalopride was given by daily oral gavage at doses of 10, 20, and 80 mg/kg. An increased incidence of mammary gland adenocarcinomas was observed in female mice at 80 mg/kg/day. The finding is considered rodent-specific. No significant neoplastic changes were seen in male mice dosed up to 80 mg/kg/day and in female mice dosed up to 20 mg/kg/day (exposure ratio of 219 and 24 times the human dosage of 2 mg per day in male and female mice, respectively, based on AUC).

In a 2-year carcinogenicity study in rats, prucalopride was given by daily oral gavage at doses of 5, 20, and 80 mg/kg in males and 5, 10, and 40 mg/kg in females. In male and female rats there was a significant increase in the incidences of benign tumors, including hepatocellular adenomas, thyroid follicular adenomas, and mammary gland fibroadenomas. An increased incidence of pituitary adenomas, pancreas islet cell adenomas, and adrenal gland benign pheochromocytomas was also seen in male rats. The increases in neoplastic changes occurred primarily at the high dose of 80 mg/kg/day in male rats and 40 mg/kg/day in female rats (exposure ratios 556 times (males) and 495 times (females) the human dosage of 2 mg per day, based on AUC). There was no significant increase in tumor incidence at doses up to 20 mg/kg/day in male rats and up to 10 mg/kg/day in female rats (exposure ratios of 63 and 40 times the human dosage of 2 mg per day in male and female rats, respectively, based on AUC).

In a 12-month carcinogenicity study in neonatal mice, prucalopride was administered by oral gavage at total dosages of 75, 150, and 300 mg/kg given across 2 doses on day 8 of age (one-third of total dosage) and day 15 of age (two-thirds of total dosage). Prucalopride was not tumorigenic at doses up to 300 mg/kg (>1,600 times the human exposure at 2 mg per day, based on AUC).

Mechanistic studies demonstrated that the increase in tumor incidence in rodents related to stimulation of prolactin in endocrine tissues was associated with dopamine D2 antagonist activity. The hepatic and thyroid tumors were due to induction of enzymes in liver and subsequent disruption of thyroid homeostasis.

#### ***Mutagenesis***

Prucalopride was tested in a battery of assays, including the Ames bacterial mutation assay in *Salmonella typhimurium* and *Escherichia coli*, mouse lymphoma assay, chromosomal aberration assays in human lymphocytes, micronucleus test in mice, Vitotox test, and *in vitro* Unscheduled DNA Synthesis (UDS) studies. Prucalopride tested positive in the Ames bacterial mutation assay in the *S. typhimurium* TA100 strain, at concentrations  $\geq 500$  mcg/plate, both in the presence and absence of metabolic activation. Prucalopride was negative in other assays evaluating mutagenesis, including *in vitro* mammalian-based assays (e.g., mouse lymphoma assay, chromosomal aberration assays in human lymphocytes) and *in vivo* tests (e.g., micronucleus test in mice, a UDS test, a gene mutation assay in Big Blue transgenic rats, and a  $^{32}\text{P}$ -postlabeling study in target tissues identified in the carcinogenicity studies, including liver, mammary gland, thyroid, and adrenal tissues). Based on the weight of evidence,

prucalopride does not appear to have a mutagenic potential.

### **Impairment of Fertility**

In an oral fertility and early embryonic development study performed in rats at doses of 5, 20, and 80 mg/kg/day, there was no evidence of adverse effects on fertility at doses up to 20 mg/kg. At the highest dose of 80 mg/kg (about 390 times the recommended human dose of 2 mg/day, based on body surface area), an increase in pre-coital interval, pseudo-pregnancies, and pre-implantation loss were seen. These effects could be secondary to increased prolactin secretion with prucalopride treatment.

### **13.2 Animal Toxicology and/or Pharmacology**

In safety pharmacology studies, no relevant effects were observed in any of the cardiovascular studies at concentrations at least 50 times the human therapeutic  $C_{max}$ . Prucalopride had no effect on potassium current in hERG-transfected HEK cells at concentrations up to 1 micromolar (50 times the human therapeutic  $C_{max}$ ). At concentrations  $\geq 3$  micromolar, concentration-dependent inhibition of the current was observed ( $IC_{50}=22$  micromolar; 1,100 times the human therapeutic  $C_{max}$ ). In studies in pigs, minor and transient increases in heart rate and blood pressure were noted upon first exposure to prucalopride, at plasma levels at least 10 times the human therapeutic  $C_{max}$ .

In repeated-dose toxicology studies in male rats, increases in heart weight (up to 9%) were observed at doses of 20 mg/kg/day or higher (at least 75 times the human therapeutic AUC). Cardiac histology revealed an increase in focal infiltration of chronic inflammatory cells in the heart at a dose of 80 mg/kg/day (at least 785 times the human therapeutic AUC). In dogs, no changes in heart rate, blood pressure, electrocardiogram parameters, heart weight, or cardiac histology were observed at any dose tested (the highest dose of 30 mg/kg/day was 572 times the human therapeutic AUC).

*In vitro* studies demonstrated no effect of prucalopride on either contractile responses in human, canine, and porcine coronary arteries at concentrations up to 10 micromolar (500 times the human clinical  $C_{max}$ ) or on platelet aggregation at concentrations up to 200 nanomolar (10 times the human clinical  $C_{max}$ ).

## **14 CLINICAL STUDIES**

The efficacy of prucalopride for the treatment of CIC was evaluated in six double-blind, placebo-controlled, randomized, multicenter clinical trials in 2,484 adult patients (Studies 1 to 6; *see Table 3*). Studies 1 through 5 were 12-week treatment duration and Study 6 included 24 weeks of treatment. Patients less than 65 years were dosed with prucalopride tablets 2 mg once daily. In Studies 2 and 6, the geriatric patients started on prucalopride tablets 1 mg once daily and, if necessary, the dose was increased to 2 mg after 2 or 4 weeks of treatment in the event of insufficient response at 1 mg; of these patients 81% increased to 2 mg. Overall, the majority of patients were female (76%) and white (76%), and also included Asian (19%) and black (3%). The mean adult age was  $47\pm 16$  years (range 17 to 95 years) and the mean duration of constipation was  $16\pm 15$  years with 28% of patients having chronic constipation for at least 20 years.

### **Table 3: Main Studies in the Prucalopride Tablets Clinical Program**

<b>Study Number</b>	<b>Duration</b>
Study 1 (PRU-CRC-3001, NCT01116206)	12 Weeks
Study 2 (SPD555-302, NCT01147926)	12 Weeks
Study 3 (PRU-INT-6, NCT00488137)	12 Weeks
Study 4 (PRU-USA-11, NCT00483886)	12 Weeks
Study 5 (PRU-USA-13, NCT00485940)	12 Weeks
Study 6 (SPD-555-401, NCT01424228)	24 Weeks

Eligible patients required a history of chronic constipation defined as having fewer than 3 spontaneous bowel movements (SBMs) per week that resulted in a feeling of complete evacuation (complete, spontaneous bowel movement [CSBM]) and 1 or more of the following symptoms for greater than 25% of bowel movements in the preceding 3 months, with symptoms onset more than 6 months prior to screening:

- Lumpy or hard stools
- Sensation of incomplete evacuation
- Straining at defecation

Patients who never had SBMs were eligible. In Study 1, eligibility also included sensation of ano-rectal obstruction or blockade or the need for digital manipulation in more than 25% of bowel movements. In all studies, patients were excluded if constipation was due to secondary causes or suspected to be drug-induced.

Efficacy was assessed using information provided by patients in a daily diary.

### **Primary Efficacy Results**

For the primary efficacy endpoint, a responder was defined as a patient with an average of 3 or more CSBMs per week, over the 12-week treatment period. In the Intent-to-Treat [ITT] population in the 6 trials, 1,237 received prucalopride tablets 1 or 2 mg and 1,247 received placebo. Table 4 summarizes the results.

**Table 4: Efficacy Responder Rates in Placebo-Controlled Studies of CIC: Proportion of Patients with an Average Weekly Frequency of  $\geq 3$  CSBMs per Week over 12 Weeks of Treatment (ITT Population)**

<b>Study</b>	<b>Prucalopride Tablets 1 or 2 mg Once Daily</b>		<b>Placebo</b>		<b>Treatment Difference (95% CI)</b>	<b>p value</b>
	<b>N</b>	<b>n (%)</b>	<b>N</b>	<b>n (%)</b>		
Study 1	249	83 (33)	252	26 (10)	23 (16, 30)	p<0.001
Study 2	177	67 (38)	181	32 (18)	20 (11, 29)	p<0.001
Study 3	236	46 (19)	240	23 (10)	10 (4, 16)	p=0.002
Study 4	190	55 (29)	193	25 (13)	16 (8, 24)	p<0.001
Study 5	214	50 (24)	212	25 (12)	12	p<0.001

Study 5	214	50 (24)	212	25 (12)	(4, 19)	p<0.001
Study 6	171	43 (25)	169	34 (20)	5 (-4, 14)	p=0.341

p-value based on a Cochran-Mantel-Haenszel test

N = number of patients per treatment group

n = number of responders

In all studies, improvement in the frequency of CSBMs/week was seen as early as week 1 and was maintained through week 12.

Across the six studies, the median time to first CSBM after dosing of prucalopride tablets on day 1 ranged from 1.4 to 4.7 days compared with 9.1 to 20.6 days in the placebo group. The median time to first SBM after dosing on day 1 ranged from 0.1 to 0.4 days in the prucalopride tablets group compared with 1.0 to 1.6 days in the placebo group.

### **Alternative Efficacy Endpoint**

Using an alternative efficacy endpoint, a responder was defined as a patient who had at least 3 CSBMs and an increase of at least 1 CSBM from baseline in a given week for at least 9 weeks out of the 12-week treatment period and for at least 3 of the last 4 weeks of the treatment period. The differences in response rates between prucalopride tablets and placebo in the 6 studies are shown in Table 5.

**Table 5: Efficacy Responder Rates in Placebo-Controlled Studies of CIC - Proportion of Patients with an Average of  $\geq 3$  CSBMs/week and an Increase of  $\geq 1$  CSBM per Week for at Least 9 out of the 12 Weeks, Including 3 of the Last 4 Weeks (ITT Population)**

Study	Prucalopride Tablets 1 or 2 mg Once Daily		Placebo		Treatment Difference (95% CI)
	N	n (%)	N	n (%)	
Study 1	249	65 (26)	252	22 (9)	17 (11, 24)
Study 2	177	57 (32)	181	25(14)	18 (10, 27)
Study 3	236	30 (13)	240	13 (5)	8 (2, 12)
Study 4	190	37 (19)	193	15 (8)	11 (5, 18)
Study 5	214	34 (16)	212	11 (5)	11 (5,16)
Study 6	171	29 (17)	169	22 (13)	4 (-4, 12)

CSBM = complete spontaneous bowel movement

N = number of patients per treatment group

n = number of responders

## **16 HOW SUPPLIED/STORAGE AND HANDLING**

Prucalopride tablets containing 1 mg prucalopride are yellow colored, round shaped, film coated tablets, debossed with "J" on one side and "7" on the other side. They are supplied as:

- NDC 70748-389-01: HDPE bottle of 30 tablets, with child-resistant closure

Prucalopride tablets containing 2 mg prucalopride are white colored, round shaped, film coated tablets, debossed with "J" on one side and "6" on the other side. They are supplied as:

- NDC 70748-390-01: HDPE bottle of 30 tablets, with child-resistant closure.

Store Prucalopride tablets at 20°C to 25°C (68°F to 77°F); excursions permitted between 15°C to 30°C (between 59°F to 86°F) [see USP Controlled Room Temperature].

Store prucalopride tablet in the original container to protect from moisture.

## 17 PATIENT COUNSELING INFORMATION

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

***Suicidal Ideation and Behavior:*** Inform patients, their caregivers, and family members that suicidal ideation and behavior, self-injurious ideation as well as new onset or worsening depression have been reported in patients treated with prucalopride tablets. Advise them to be aware of any unusual changes in mood or behavior, new onset or worsening of depression, or the emergence of suicidal thoughts or behavior. Instruct patients, caregivers, and family members to discontinue prucalopride tablets immediately and contact their healthcare provider if any of these symptoms occur [see *Warnings and Precautions (5.1)*].

### ***Storage***

Advise patients to keep Prucalopride tablets in the original container to protect from moisture.



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### **Manufactured for:**

Lupin Pharmaceuticals, Inc.

Naples, FL 34108

United States

### **Manufactured by:**

Lupin Limited

Goa - 403 722

India

December 2025

**PATIENT INFORMATION**  
**Prucalopride (proo-kal-oh-pride)**  
**Prucalopride tablets, for oral use**

**What are Prucalopride Tablets?**

Prucalopride tablets are prescription medicine used in adults to treat a type of constipation called chronic idiopathic constipation (CIC). Idiopathic means the cause of the constipation is unknown.

It is not known if Prucalopride tablets is safe and effective in children.

**Do not take Prucalopride tablets if you:**

- are allergic to prucalopride. Allergic reaction symptoms may include trouble breathing, rash, itching and swelling of your face, lips, tongue or throat.
- have a tear in your stomach or intestinal wall (bowel perforation), a bowel blockage (intestinal obstruction) or serious conditions of the intestinal wall such as Crohn's disease or ulcerative colitis.

**Before taking Prucalopride tablets, tell your healthcare provider about all of your medical conditions, including if you:**

- have or have had depression, suicidal thoughts or actions, or mood problems.
- have kidney problems. Your healthcare provider may give you a lower dose of prucalopride tablets.
- are pregnant or plan to become pregnant. It is not known if prucalopride will harm your unborn baby.
- are breastfeeding or plan to breastfeed. Prucalopride can pass into your breastmilk.

Talk with your healthcare provider about the best way to feed your baby if you take prucalopride tablets.

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

**How should I take Prucalopride Tablets?**

- Take 1 prucalopride tablet each day or as directed by your healthcare provider.
- Take prucalopride tablets exactly as your healthcare provider tells you to take it.
- Take prucalopride tablets with or without food.

**What are the possible side effects of Prucalopride Tablets?**

**Prucalopride tablets may cause serious side effects, including:**

unusual changes in mood or behavior, thoughts of hurting yourself, trying to hurt yourself, or suicide. Stop taking Prucalopride tablets right away and tell your healthcare provider immediately if your depression gets worse, you feel sad, hopeless, begin to have thoughts of suicide, thoughts of hurting yourself or you have tried to hurt yourself or if you develop new depression.

**The most common side effects of prucalopride tablets include:**

- headache
- nausea
- dizziness
- gas
- fatigue
- stomach area (abdominal) pain or bloating
- diarrhea
- vomiting

These are not all the possible side effects of prucalopride tablets.

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 Prucalopride Tablets?**

- Store Prucalopride tablets at room temperature between 68°F to 77°F (20°C to 25°C).
- Store Prucalopride tablets in the original container to protect from moisture.

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

**General information about the safe and effective use of Prucalopride tablets.**

Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. Do not use prucalopride tablets for a condition for which it was not prescribed. Do not give prucalopride tablets to other people, even if they have the same symptoms that you have. It may harm them. You can ask your pharmacist or healthcare provider for information about prucalopride tablets that is written for health professionals.

**What are the ingredients in Prucalopride Tablets?**

**Active ingredient:** prucalopride

**Inactive ingredients:** lactose monohydrate, magnesium stearate, microcrystalline cellulose and silica, colloidal anhydrous. The coating for 1 mg tablet contains hypromellose, iron oxide yellow, lactose monohydrate, talc titanium dioxide, and triacetin. The coating for 2 mg tablet contains hypromellose, lactose monohydrate, titanium dioxide and triacetin.



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Naples, FL 34108

United States

**Manufactured by:**

Lupin Limited

Goa - 403 722

India

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

**Revised:** December 2025

ID#282419

**PACKAGE LABEL.PRINCIPAL DISPLAY PANEL**

Rx Only NDC 70748-389-01

Prucalopride Tablets 1 mg

Usual Dose: One tablet once daily. 30 Tablets

NDC 70748-389-01

# Prucalopride Tablets

**1 mg**

Usual Dose: One tablet once daily.

Rx only

LUPIN®

30 Tablets

Each film-coated tablet contains:

prucalopride..... 1 mg  
(equivalent to 1.32 mg of prucalopride succinate)

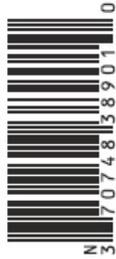
**Storage:** Store prucalopride tablets at 20°C to 25°C (68°F to 77°F); excursions permitted between 15°C to 30°C (59°F to 86°F) [see USP Controlled Room Temperature]. Store in original container to protect from moisture.

Keep out of the reach of children.

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**Lupin Pharmaceuticals, Inc.**  
Naples, FL 34108  
United States

Manufactured by:  
**Lupin Limited**  
Goa, 403 722  
INDIA

Code No. GO/DRUGS/654



277863

60 x 16 mm

NDC 70748-389-01

# Prucalopride Tablets

**1 mg**

Usual Dose: One tablet once daily.

Rx only

LUPIN®

30 Tablets

Each film-coated tablet contains:

prucalopride..... 1 mg  
(equivalent to 1.32 mg of prucalopride succinate)

**Storage:** Store prucalopride tablets at 20°C to 25°C (68°F to 77°F); excursions permitted between 15°C to 30°C (59°F to 86°F) [see USP Controlled Room Temperature]. Store in original container to protect from moisture.

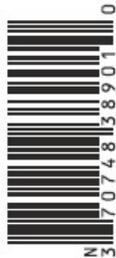
Keep out of the reach of children.

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United States

Product of India

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**Lupin Limited**  
Goa, 403 722  
INDIA

Code No. GO/DRUGS/654



281927

60 x 16 mm

Rx Only NDC 70748-390-01

Prucalopride Tablets 2 mg

Usual Dose: One tablet once daily. 30 Tablets

NDC 70748-390-01

# Prucalopride Tablets

**2 mg**

Usual Dose: One tablet once daily.

Rx only

LUPIN®

30 Tablets

Each film-coated tablet contains:

prucalopride..... 2 mg  
(equivalent to 2.64 mg of prucalopride succinate)

**Storage:** Store prucalopride tablets at 20°C to 25°C (68°F to 77°F); excursions permitted between 15°C to 30°C (59°F to 86°F) [see USP Controlled Room Temperature]. Store in original container to protect from moisture.

Keep out of the reach of children.

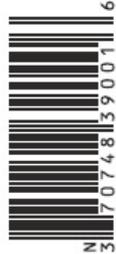
Manufactured for:

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Naples, FL 34108  
United States

Manufactured by:

**Lupin Limited**  
Goa, 403 722  
INDIA

Code No. GO/DRUGS/654



277864

60 x 16 mm

NDC 70748-390-01

# Prucalopride Tablets

**2 mg**

Usual Dose: One tablet once daily.

Rx only

LUPIN®

30 Tablets

Each film-coated tablet contains:

prucalopride..... 2 mg  
(equivalent to 2.64 mg of prucalopride succinate)

**Storage:** Store prucalopride tablets at 20°C to 25°C (68°F to 77°F); excursions permitted between 15°C to 30°C (59°F to 86°F) [see USP Controlled Room Temperature]. Store in original container to protect from moisture.

Keep out of the reach of children.

Manufactured for:

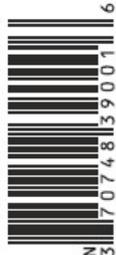
**Lupin Pharmaceuticals, Inc.**  
Naples, FL 34108  
United States

Product of India

Manufactured by:

**Lupin Limited**  
Goa, 403 722  
INDIA

Code No. GO/DRUGS/654



281928

60 x 16 mm

## PRUCALOPRIDE

prucalopride tablet, film coated

### Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:70748-389
<b>Route of Administration</b>	ORAL		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
<b>PRUCALOPRIDE SUCCINATE</b> (UNII: 4V2G75E1CK) (PRUCALOPRIDE - UNII:0A09IUW5TP)	PRUCALOPRIDE	1 mg

## Inactive Ingredients

Ingredient Name	Strength
<b>FERRIC OXIDE YELLOW</b> (UNII: EX438O2MRT)	
<b>HYPROMELLOSE 2910 (15 MPA.S)</b> (UNII: 365FW2JZOW)	
<b>LACTOSE MONOHYDRATE</b> (UNII: EWQ57Q8I5X)	
<b>MAGNESIUM STEARATE</b> (UNII: 70097M6I30)	
<b>MICROCRYSTALLINE CELLULOSE</b> (UNII: OP1R32D61U)	
<b>SILICON DIOXIDE</b> (UNII: ETJ7Z6XBU4)	
<b>TALC</b> (UNII: 7SEV7J4R1U)	
<b>TITANIUM DIOXIDE</b> (UNII: 15FIX9V2JP)	
<b>TRIACETIN</b> (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>	J;7
<b>Contains</b>			

## Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:70748-389-01	30 in 1 BOTTLE; Type 0: Not a Combination Product	06/25/2025	

## Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA218847	06/25/2025	

## PRUCALOPRIDE

prucalopride tablet, film coated

### Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:70748-390
<b>Route of Administration</b>	ORAL		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
<b>PRUCALOPRIDE SUCCINATE</b> (UNII: 4V2G75E1CK) (PRUCALOPRIDE - UNII:0A09IUW5TP)	PRUCALOPRIDE	2 mg

## Inactive Ingredients

Ingredient Name	Strength
<b>HYPROMELLOSE 2910 (15 MPA.S)</b> (UNII: 36SFW2JZ0W)	
<b>LACTOSE MONOHYDRATE</b> (UNII: EWQ57Q8I5X)	
<b>MAGNESIUM STEARATE</b> (UNII: 70097M6I30)	
<b>MICROCRYSTALLINE CELLULOSE</b> (UNII: OP1R32D61U)	
<b>SILICON DIOXIDE</b> (UNII: ETJ7Z6XBU4)	
<b>TITANIUM DIOXIDE</b> (UNII: 15FIX9V2JP)	
<b>TRIACETIN</b> (UNII: XHX3C3X673)	

## Product Characteristics

<b>Color</b>	WHITE	<b>Score</b>	no score
<b>Shape</b>	ROUND	<b>Size</b>	9mm
<b>Flavor</b>		<b>Imprint Code</b>	J;6
<b>Contains</b>			

## Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:70748-390-01	30 in 1 BOTTLE; Type 0: Not a Combination Product	06/25/2025	

## Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA218847	06/25/2025	

**Labeler** - Lupin Pharmaceuticals, Inc. (089153071)

**Registrant** - LUPIN LIMITED (675923163)

## Establishment

Name	Address	ID/FEI	Business Operations
LUPIN LIMITED		677600414	MANUFACTURE(70748-389, 70748-390) , PACK(70748-389, 70748-390)

Revised: 1/2026

Lupin Pharmaceuticals, Inc.