## NATEGLINIDE - nateglinide tablet

**Rising Pharmaceuticals, Inc.** 

#### HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use NATEGLINIDE TABLETS, USP safely and effectively.

See full prescribing information for NATEGLINIDE TABLETS, USP.

NATEGLINIDE Tablets, for oral use

## Initial U.S. Approval: 2000

..... INDICATIONS AND USAGE Nateglinide Tablets are a glinide indicated as an adjunct to diet and exercise to improve glycemic control in adults with type 2 diabetes mellitus. (1) Limitations of Use: Not for treating type 1 diabetes mellitus or diabetes ketoacidosis (1)
DOSAGE AND ADMINISTRATION Recommended dose is 120 mg three times daily (2)
In patients who are near glycemic goal when treatment is initiated, 60 mg three times daily may be administered. (2) Administer 1 to 30 minutes before meals (2) • If a meal is skipped, skip the scheduled dose to reduce the risk of hypoglycemia. (2, 5.1)

## ···· DOSAGE FORMS AND STRENGTHS ······

Tablets: 60 mg and 120 mg (3) ..... CONTRAINDICATIONS · History of hypersensitivity to nateglinide or its inactive ingredients (4)

#### WARNINGS AND PRECAUTIONS

- <u>Hypoglycemia</u>: Nateglinide Tablets may cause hypoglycemia. Administer before meals to reduce the risk of hypoglycemia. Skip the scheduled dose of Nateglinide Tablets if a meal is skipped to reduce the risk of hypoglycemia. (5.1)
- <u>Macrovascular Outcomes</u>: There have been no clinical studies establishing conclusive evidence of macrovascular risk reduction with Nateglinide Tablets. (5.2)
- ADVERSE REACTIONS Common adverse reactions associated with Nateglinide Tablets (3% or greater incidence) were upper respiratory tract infection, back pain, flu symptoms, dizziness, arthropathy, diarrhea. (6.1)

# To report SUSPECTED ADVERSE REACTIONS, contact Rising Pharma Holdings, Inc. at 1-844-874-7464 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

- ---- DRUG INTERACTIONS ----• <u>Drugs That May Increase the Potential for Hypoglycemia</u>: Nateglinide Tablets dose reductions and increased frequency of glucose monitoring may be required when co-administered (7)
- and increased frequency of glucose thankoving indy be required when co-administered (7) **Drugs That May Increase the Potential for Hyperglycemia**: Nateglinide Tablets dose increases and increased frequency of glucose monitoring may be required when co-administered (7) **Drugs That May Blunt Signs and Symptoms of Hypoglycemia**: Increased frequency of glucose monitoring may be required when co-administered (7)
- USE IN SPECIFIC POPULATIONS
- Lactation: Nateglinide Tablets are not recommended when breastfeeding (8.2)

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## Revised: 11/2022

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

## FULL PRESCRIBING INFORMATION

## **1 INDICATIONS AND USAGE**

Nateglinide Tablets are indicated as an adjunct to diet and exercise to improve glycemic control in adults with type 2 diabetes mellitus.

Limitations of Use:

Nateglinide Tablets should not be used in patients with type 1 diabetes mellitus or for the treatment of diabetic ketoacidosis.

## **2 DOSAGE AND ADMINISTRATION**

The recommended dose of Nateglinide Tablets is 120 mg orally three times daily before meals.

The recommended dose of Nateglinide Tablets is 60 mg orally three times daily before meals in patients who are near glycemic goal when treatment is initiated. Instruct patients to take Nateglinide Tablets 1 to 30 minutes before meals. In patients who skip meals, instruct patients to skip the scheduled dose of Nateglinide Tablets to reduce the risk of hypoglycemia [see Warnings and Precautions (5.1)].

## **3 DOSAGE FORMS AND STRENGTHS**

- 60 mg tablets: Pink, round shaped, biconvex, film-coated tablets, debossed with "N7" on one side and plain on other side.
- 120 mg tablets: Yellow, oval shaped, biconvex, film-coated tablets, debossed with "N5" on one side and plain on other side.

## **4 CONTRAINDICATIONS**

Nateglinide Tablets are contraindicated in patients with a history of hypersensitivity to Nateglinide Tablets or its inactive ingredients.

### **5 WARNINGS AND PRECAUTIONS**

#### 5.1 Hypoglycemia

All glinides, including Nateglinide Tablets, can cause hypoglycemia [see Adverse Reactions (6.1)]. Severe hypoglycemia can cause seizures, may be life-threatening, or cause death. Hypoglycemia can impair concentration ability and reaction time; this may place an individual and others at risk in situations where these abilities are important (e.g., driving or operating other machinery).

Hypoglycemia can happen suddenly and symptoms may differ in each individual and change over time in the same individual. Symptomatic awareness of hypoglycemia may be less pronounced in patients with longstanding diabetes, in patients with diabetic neuropathy (nerve disease), in patients using medications that block the sympathetic nervous system (e.g., beta-blockers) [see Drug Interactions (7)], or in patients who experience recurrent hypoglycemia.

Factors which may increase the risk of hypoglycemia include changes in meal pattern (e.g., macronutrient content), changes in level of physical activity, changes to coadministered medication [see Drug Interactions (7)], and concomitant use with other antidiabetic agents. Patients with renal or hepatic impairment may be at higher risk of hypoglycemia [see Use in Specific Populations (8.6, 8.7), Clinical Pharmacology (12.3)].

Patients should take Nateglinide Tablets before meals and be instructed to skip the dose of Nateglinide Tablets if a meal is skipped [see Dosage and Administration (2)]. Patients and caregivers must be educated to recognize and manage hypoglycemia. Self-monitoring of blood glucose plays an essential role in the prevention and management of hypoglycemia. In patients at higher risk for hypoglycemia and patients who have reduced symptomatic awareness of hypoglycemia, increased frequency of blood glucose monitoring is recommended.

## 5.2 Macrovascular Outcomes

There have been no clinical studies establishing conclusive evidence of macrovascular risk reduction with Nateglinide Tablets.

## **6 ADVERSE REACTIONS**

The following serious adverse reaction is also described elsewhere in the labeling: • Hypoglycemia [see Warnings and Precautions (5.1)]

## 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.

In clinical trials, approximately 2,600 patients with type 2 diabetes mellitus were treated with Nateglinide Tablets. Of these, approximately 1,335 patients were treated for 6 months or longer and approximately 190 patients for one year or longer. Table 1 shows

#### Table 1: Adverse Reactions other than Hypoglycemia (%) occurring Greater than or Equal to 2% in Nateglinide Tablets-Treated Patients from Pool of 12 to 64 week Placebo Controlled Trials

	Placebo	Nateglinide Tablets
	N=458	N=1441
Preferred Term		
Upper Respiratory Infection	8.1	10.5
Back Pain	3.7	4.0
Flu Symptoms	2.6	3.6
Dizziness	2.2	3.6
Arthropathy	2.2	3.3
Diarrhea	3.1	3.2
Accidental Trauma	1.7	2.9
Bronchitis	2.6	2.7
Coughing	2.2	2.4

## **Hypoglycemia**

Episodes of severe hypoglycemia (plasma glucose less than 36 mg/dL) were reported in two patients treated with Nateglinide Tablets. Non-severe hypoglycemia occurred in 2.4 % of Nateglinide Tablets treated patients and 0.4 % of placebo-treated patients [see Warnings and Precautions (5.1)].

## <u>Weight Gain</u>

Patients treated with Nateglinide Tablets had statistically significant mean increases in weight compared to placebo. In clinical trials, the mean weight increases with Nateglinide Tablets 60 mg (3 times daily) and Nateglinide Tablets 120 mg (3 times daily) compared to placebo were 1.0 kg and 1.6 kg respectively.

#### Laboratory Test

*Increases in Uric Acid:* There were increases in mean uric acid levels for patients treated with Nateglinide Tablets alone, Nateglinide Tablets in combination with metformin, metformin alone, and glyburide alone. The respective differences from placebo were 0.29 mg/dL, 0.45 mg/dL, 0.28 mg/dL, and 0.19 mg/dL.

### 6.2 Postmarketing Experience

The following adverse reactions have been identified during post-approval use of Nateglinide Tablets. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

- Hypersensitivity Reactions: Rash, itching, and urticaria
- Hepatobiliary Disorders: Jaundice, cholestatic hepatitis, and elevated liver enzymes

## **7 DRUG INTERACTIONS**

Table 2 includes a list of drugs with clinically important drug interactions when concomitantly administered or withdrawn with Nateglinide Tablets and instructions for managing or preventing them.

## Table 2: Clinically Significant Drug Interactions with Nateglinide Tablets

Drugs Tha	at May Increase the Blood-Glucose-Lowering Effect of Nateglinide Tablets and Susceptibility to Hypoglycemia
Drugs:	Nonsteroidal anti-inflammatory drugs (NSAIDs), salicylates, monoamine oxidase inhibitors, non-selective beta-adrenergic- blocking agents, anabolic
	hormones (e.g. methandrostenolone), guanethidine, gymnema sylvestre, glucomannan, thioctic acid, and inhibitors of CYP2C9 (e.g. amiodarone,
	fluconazole, voriconazole, sulfinpyrazone) or in patients known to be poor metabolizers of CYP2C9 substrates, alcohol.
Interventio	m:Dose reductions and increased frequency of glucose monitoring may be required when Nateglinide Tablets are coadministered with these drugs.
Drugs and	I Herbals That May Reduce the Blood-Glucose-Lowering Effect of Nateglinide Tablets and Increase Susceptibility to Hyperglycemia
Drugs:	Thiazides, corticosteroids, thyroid products, sympathomimetics, somatropin, somatostatin analogues (e.g., lanreotide, octreotide), and CYP inducers
	(e.g., rifampin, phenytoin and St John's Wort).
Interventio	m Dose increases and increased frequency of glucose monitoring may be required when Nateglinide Tablets are coadministered with these drugs.
Drugs Tha	at May Blunt Signs and Symptoms of Hypoglycemia
Druge	beta-blockers, cloniding, guanethiding, and reserving

Drugs: beta-blockers, clonidine, guanethidine, and reserpine

Intervention: Increased frequency of glucose monitoring may be required when Nateglinide Tablets are coadministered with these drugs.

## **8 USE IN SPECIFIC POPULATIONS**

## 8.1 Pregnancy

### Risk Summary

The available data from published literature and the applicant's pharmacovigilance with use of Nateglinide Tablets in pregnant women are insufficient to identify a drugassociated risk of major birth defects, miscarriage or other adverse maternal or fetal outcomes. There are risks to the mother and fetus associated with poorly controlled diabetes in pregnancy (*see Clinical Considerations*). Nateglinide Tablets should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. In animal reproduction studies, there was no teratogenicity in rats and rabbits administered oral nateglinide during organogenesis at approximately 27 and 8 times the maximum recommended human dose (MRHD), respectively, based on body surface area (BSA).

The estimated background risk of major birth defects is 6% to 10% in women with pregestational diabetes with a HbAlc > 7 and has been reported to be as high as 20% to 25% in women with a HbA1c > 10. The estimated background risk of 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.

## **Clinical Considerations**

## Disease-Associated Maternal and/or Embryo/Fetal Risk

Poorly controlled diabetes in pregnancy increases the maternal risk for diabetic ketoacidosis, pre-eclampsia, spontaneous abortions, preterm delivery, and delivery complications. Poorly controlled diabetes increases the fetal risk for major birth defects, stillbirth, and macrosomia related morbidity.

## <u>Data</u>

## Animal data

In embryofetal development studies, nateglinide administered orally during the period of organogenesis was not teratogenic in rats at doses up to 1,000 mg/kg (corresponding to 27 times the MRHD of 120 mg three times per day, based on BSA). In rabbits, embryonic development was adversely affected at 500 mg/kg/day and the incidence of gallbladder agenesis or small gallbladder was increased at a dose of 300 and 500 mg/kg (corresponding to 16 and 27 times the MRHD). No such effects were observed at 150 mg/kg/day (corresponding to 8 times the MRHD). In a pre- and postnatal development study in rats, nateglinide administered by oral gavage at doses of 100, 300, and 1000 mg/kg/day from gestation day 17 to lactation day 21 resulted in lower body weight in offspring of rats administered nateglinide at 1,000 mg/kg/day (corresponding to 27 times the MRHD).

## 8.2 Lactation

#### Risk summary

There are no data on the presence of nateglinide in human milk, the effects on the breastfeeding infant, or the effects on milk production. The drug is present in animal milk. When a drug is present in animal milk, it is likely that the drug will be present in human milk (*see Data*). Because the potential for hypoglycemia in breast-fed infants, advise women that use of Nateglinide Tablets are not recommended while breastfeeding.

### <u>Data</u>

In rat reproduction studies, nateglinide and its metabolite are excreted in the milk following oral dose (300 mg/kg). The overall milk: plasma (M/P) concentration ratio of the total radioactivity was approximately 1.4 based on AUC<sub>0-48</sub> values. The M/P ratio of unchanged nateglinide was approximately 2.2.

## 8.4 Pediatric Use

The safety and effectiveness of Nateglinide Tablets have not been established in pediatric patients.

## 8.5 Geriatric Use

436 patients 65 years and older, and 80 patients 75 years and older were exposed to Nateglinide Tablets in clinical studies. No differences were observed in safety or efficacy of Nateglinide Tablets between patients age 65 and over, and those under age 65. However, greater sensitivity of some older individuals to Nateglinide Tablets therapy cannot be ruled out.

## 8.6 Renal Impairment

No dosage adjustment is recommended in patients with mild to severe renal impairment [see Clinical Pharmacology (12.3)].

## 8.7 Hepatic Impairment

No dose adjustment is recommended for patients with mild hepatic impairment. Use of Nateglinide Tablets in patients with moderate-to-severe hepatic impairment has not been studied and therefore, should be used with caution in these patients [see Clinical Pharmacology (12.3)].

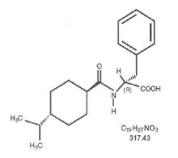
## **10 OVERDOSAGE**

There have been no instances of overdose with Nateglinide Tablets in clinical trials. However, an overdose may result in an exaggerated glucose-lowering effect with the development of hypoglycemic symptoms.

Hypoglycemic symptoms without loss of consciousness or neurological findings should be treated with oral glucose and adjustments in dosage and/or meal patterns. Severe hypoglycemic reactions with coma, seizure, or other neurological symptoms should be treated with intravenous glucose. As Nateglinide Tablets are highly protein bound, dialysis is not an efficient means of removing it from the blood.

## **11 DESCRIPTION**

Nateglinide Tablets are an oral blood glucose-lowering drug of the glinide class. Nateglinide Tablets, (-)-N- [(trans-4-isopropylcyclohexane)carbonyl]-D-phenylalanine, are structurally unrelated to the oral sulfonylurea insulin secretagogues.



Nateglinide is a white powder with a molecular weight of 317.43 g/mol. It is freely soluble in methanol, ethanol, and chloroform, soluble in ether, sparingly soluble in acetonitrile and octanol, and practically insoluble in water. Nateglinide Tablets biconvex tablets contain 60 mg, or 120 mg, of nateglinide for oral administration.

*Inactive Ingredients:*colloidal silicon dioxide, corn starch, hypromellose, mannitol, polyethylene glycol, povidone, sodium starch glycolate, sodium stearyl fumarate, talc, titanium dioxide. In addition, the 60 mg contains iron oxide red and the 120 mg contains iron oxide yellow.

## **12 CLINICAL PHARMACOLOGY**

### 12.1 Mechanism of Action

Nateglinide lowers blood glucose levels by stimulating insulin secretion from the pancreas. This action is dependent upon functioning beta-cells in the pancreatic islets. Nateglinide interacts with the ATP- sensitive potassium (K<sup>+</sup><sub>ATP</sub>) channel on pancreatic beta-cells. The subsequent depolarization of the beta cell opens the calcium channel, producing calcium influx and insulin secretion. The extent of insulin release is glucose dependent and diminishes at low glucose levels. Nateglinide is highly tissue selective with low affinity for heart and skeletal muscle.

#### 12.2 Pharmacodynamics

Nateglinide Tablets stimulate pancreatic insulin secretion within 20 minutes of oral administration. When Nateglinide Tablets are dosed before meals, the peak rise in plasma insulin occurs approximately 1 hour after dosing and falls to baseline by 4 hours after dosing.

## 12.3 Pharmacokinetics

In patients with Type 2 diabetes, multiple dose administration of nateglinide over the dosage range of 60 mg to 240 mg shows linear pharmacokinetics for both area under the curve (AUC) and  $C_{max}$ . In patients with Type 2 diabetes, there is no apparent accumulation of nateglinide upon multiple dosing of up to 240 mg three times daily for 7 days.

## Absorption

Absolute bioavailability of nateglinide is approximately 73%. Plasma profiles are characterized by multiple plasma concentration peaks when nateglinide is administered under fasting conditions. This effect is diminished when nateglinide is taken prior to a meal. Following oral administration immediately prior to a meal, the mean peak plasma nateglinide concentrations ( $C_{max}$ ) generally occur within 1 hour ( $T_{max}$ ) after dosing.  $T_{max}$  is independent of dose.

The pharmacokinetics of nateglinide are not affected by the composition of a meal (high protein, fat, or carbohydrate). However, peak plasma levels are significantly reduced when Nateglinide Tablets are administered 10 minutes prior to a liquid meal as compared to solid meal. When given with or after meals, the extent of nateglinide absorption (AUC) remains unaffected. However, there is a delay in the rate of absorption characterized by a decrease in  $C_{max}$  and a delay in time to peak plasma concentration ( $T_{max}$ ).

Nateglinide Tablets did not have any effect on gastric emptying in healthy subjects as assessed by acetaminophen testing.

## **Distribution**

Following intravenous (IV) administration of nateglinide, the steady-state volume of distribution of nateglinide is estimated to be approximately 10 L in healthy subjects. Nateglinide is extensively bound (98%) to serum proteins, primarily serum albumin, and to a lesser extent  $\alpha_1$  acid glycoprotein. The extent of serum protein binding is independent of drug concentration over the test range of 0.1 to 10 mcg/mL.

#### **Elimination**

In healthy volunteers and patients with type 2 diabetes mellitus, nateglinide plasma concentrations declined with an average elimination half-life of approximately 1.5 hours.

#### Metabolism

*In vitro* drug metabolism studies indicate that Nateglinide Tablets are predominantly metabolized by the cytochrome P450 isozyme CYP2C9 (70%) and to a lesser extent CYP3A4 (30%).

The major routes of metabolism are hydroxylation followed by glucuronide conjugation. The major metabolites are less potent antidiabetic agents than nateglinide. The isoprene minor metabolite possesses potency similar to that of the parent compound nateglinide.

## **Excretion**

Nateglinide and its metabolites are rapidly and completely eliminated following oral administration. Eighty-three percent of the 14<sup>C</sup>-nateglinide was excreted in the urine with an additional 10% eliminated in the feces. Approximately 16% of the 14<sup>C</sup>-nateglinide was excreted in the urine as parent compound.

## Specific Populations

## Renal Impairment

No pharmacokinetic data are available in subjects with mild renal impairment (CrCl 60 to 89 mL/min). Compared to healthy matched subjects, patients with type 2 diabetes mellitus and moderate and severe renal impairment (CrCl 15-50 mL/min) not on dialysis displayed similar apparent clearance, AUC, and  $C_{max}$ . Patients with type 2 diabetes and renal failure on dialysis exhibited reduced overall drug exposure ( $C_{max}$  decreased by 49%; not statistically significant). However, hemodialysis patients also experienced reductions in plasma protein binding compared to the matched healthy volunteers.

In a cohort of 8 patients with type 2 diabetes and end-stage renal disease (ESRD) (eGFR < 15 mL/min/1.73m<sup>2</sup>) M1 metabolite accumulation up to 1.2 ng/mL occurred with a dosage of 90 mg once daily for 1 to 3 months. In another cohort of 8 patients with type 2 diabetes on hemodialysis, M1 concentration decreased after a single session of hemodialysis. Although the hypoglycemic activity of the M1 metabolite is approximately 5 times lower than nateglinide, metabolite accumulation may increase the hypoglycemic effect of the administered dose.

### Hepatic Impairment

In patients with mild hepatic impairment, the mean increase in  $C_{max}$  and AUC of nateglinide were 37% and 30 % respectively, as compared to healthy matched control subjects. There is no data on pharmacokinetics of Nateglinide Tablets in patients with moderate-to-severe hepatic impairment.

#### Gender

No clinically significant differences in nateglinide pharmacokinetics were observed between men and women.

#### Race

Results of a population pharmacokinetic analysis including subjects of Caucasian, Black, and other ethnic origins suggest that race has little influence on the pharmacokinetics of nateglinide.

#### Age

Age does not influence the pharmacokinetic properties of nateglinide.

## **Drug Interactions:**

# In vitro assessment of drug interactions

Nateglinide Tablets are a potential inhibitor of the CYP2C9 isoenzyme *in vivo* as indicated by its ability to inhibit the *in vitro* metabolism of tolbutamide. Inhibition of CYP3A4

metabolic reactions was not detected in *in vitro* experiments. *In vitro* displacement studies with highly protein-bound drugs such as furosemide, propranolol, captopril, nicardipine, pravastatin, glyburide, warfarin, phenytoin, acetylsalicylic acid, tolbutamide, and metformin showed no influence on the extent of nateglinide protein binding. Similarly, nateglinide had no influence on the serum protein binding of propranolol, glyburide, nicardipine, warfarin, phenytoin, acetylsalicylic acid, and tolbutamide *in vitro*. However, prudent evaluation of individual cases is warranted in the clinical setting.

## In vivo assessment of drug interactions

The effect of coadministered drugs on the pharmacokinetics of nateglinide and the effect of nateglinide on pharmacokinetics of coadministered drugs are shown in Tables 3 and 4. No clinically relevant change in pharmacokinetic parameters of either agent was reported when nateglinide was coadministered with glyburide, metformin, digoxin, warfarin, and diclofenac.

## Table 3: Effect of Coadministered Drugs on Pharmacokinetics of Nateglinide

Coadministered	Dosing regimen of	Dosing regimen of	Change	Change
drug	coadministered drug	nateglinide	in C <sub>max</sub>	in AUC
Glyburide	10 mg once daily for 3	120 mg three times a	8.78% ↓	3.53 % ↓
	weeks	day, single dose		
Metformin	500 mg three times a day	120 mg three times a	AM: 7.14%	AM:
	for 3 weeks	day, single dose	<b>↑</b>	1.51% ↑
			PM: 11.4%	PM:
			Ť	5.97% ↑
Digoxin	1 mg, single dose	120 mg three times a	AM: 2.17%	AM:
		day, single dose	Ť	7.62% ↑
			PM: 3.19%	PM:
			<b>↑</b>	2.22% ↑
Warfarin	30 mg, single dose	120 mg three times a	2.65% ↑	3.72% ↓
		day for 4 days		
Diclofenac	75 mg, single dose	120 mg twice daily,	AM:	AM: 2.2%
		single dose	13.23% ↓	Ť
			*PM:3.76%	*PM:
			<b>↑</b>	7.5% ↑

Table 4: Effect	of Nateglinide on	Pharmacokinetics	of Coadministered Drugs

Coadministered drug	Dosing regimen of coadministered drug	Dosing regimen of nateglinide	Change in C <sub>max</sub>	Change in AUC
Glyburide		120 mg three times a	3.18% ↓	7.34 % ↓
	weeks	day, single dose		
Metformin	500 mg three times a day		AM: 10.7%	AM: 13.3%
	for 3 weeks	day, single dose	Ť	1
			PM: 0.40%	PM: 2.27%
			<b>↑</b>	↓
Digoxin	1 mg, single dose	120 mg three times a	5.41% ↓	6.58% ↑
		day, single dose		
Warfarin	30 mg, single dose	120 mg three times a	R-warfarin:	R-warfarin:
		day for 4 days	1.03% ↓	0.74% ↑
			S-warfarin:	S-warfarin:
			0.85% ↓	7.23% ↑
Diclofenac	75 mg, single dose	120 mg twice daily,	2.19% ↑	7.97% ↑
	_	single dose		

AM: after morning dose; PM: after evening dose; SD: single dose;  $\uparrow$ : increase in the parameter;  $\downarrow$ : decrease in the parameter

## **13 NONCLINICAL TOXICOLOGY**

### 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

<u>Carcinogenicity:</u> Nateglinide did not increase tumors in two year carcinogenicity studies conducted in mice and rats. Oral doses of Nateglinide up to 900 mg/kg in rats and 400 mg/kg in mice were tested, which produced exposures in rats approximately 30-40 times and in mice 10-30 times the human therapeutic exposure of nateglinide at a dose of 120 mg three times daily, based on AUC.

<u>Mutagenesis:</u> Nateglinide was not genotoxic in the *in vitro* Ames test, mouse lymphoma assay, chromosome aberration assay or in the *in vivo* mouse micronucleus test.

<u>Impairment of Fertility</u>: Fertility was unaffected by administration of nateglinide to rats at doses up to 600 mg/kg (corresponding to 16 times the MRHD of 120 mg three times per day, based on BSA).

## **14 CLINICAL STUDIES**

## 14.1 Monotherapy

In a 24-week, double-blind, placebo-controlled study, patients with type 2 diabetes were randomized to receive either Nateglinide Tablets (60 mg or 120 mg three times daily before meals) or placebo. Patients previously treated with antidiabetic medications were required to discontinue that medication for at least 2 months before randomization. At Week 24, treatment with Nateglinide Tablets before meals resulted in statistically significant reductions in mean HbA1C and mean fasting plasma glucose (FPG) compared to placebo (see Table 5). The reductions in HbA1C and FPG were similar for patient's naïve to, and those previously exposed to, antidiabetic medications.

# Table 5: Endpoint Results for a 24-week, Fixed Dose Study of Nateglinide Tablets Monotherapy

	Placebo		Nateglinide Tablets 120 mg
		three times daily before	three times daily before
		meals	meals
HbA <sub>1C</sub> (%)	N=168	N=167	N=168
Baseline (mean)	8.0	7.9	8.1
Change from	+0.2	-0.3	-0.5
baseline (mean)			
Difference		-0.5 <sup>a</sup>	-0.7 <sup>a</sup>
from placebo			
(mean)			
FPG (mg/dL)	N=172	N=171	N=169
Baseline	167.9	161.0	166.5
(mean)			
Change from	+9.1	+0.4	-4.5
baseline (mean)			
Difference		-8.7 <sup>a</sup>	-13.6 <sup>a</sup>
from placebo			
(mean)			

## p-value $\leq 0.004$

## 14.2 Monotherapy Compared to Glyburide

In a 24-week, double-blind, active-controlled trial, patients with type 2 diabetes who had been on a sulfonylurea for 3 or more months and who had a baseline HbA1C greater than or equal to 6.5% were randomized to receive Nateglinide Tablets (60 mg or 120 mg three times daily before meals) or glyburide 10 mg once daily. Patients randomized to Nateglinide Tablets had statistically significant increases in mean HbA1C and mean FPG at endpoint compared to patients randomized to glyburide.

	Glyburide 10 mg Once daily	<b>60 mg</b>	Nateglinide Tablets 120 mg three times daily before meals
HbA <sub>1C</sub> (%)		N=178	N=179
	N=183		
Baseline (mean)	7.8	8.0	7.9
Change from baseline (mean)	0.3	1.3	1.1
Difference from glyburide		1.0 <sup>a</sup>	0.9 <sup>a</sup>
FPG (mmol/L)	N=184	N=182	N=180
Baseline (mean)	9.44	9.67	9.61
Change from baseline (mean)	0.19	3.06	2.84
Difference from glyburide		2.87ª	2.66 <sup>a</sup>

<sup>a</sup> p-value <0.001

## 14.3 Monotherapy and In Combination with Metformin

In a 24-week, double-blind, active- and placebo-controlled study, patients with type 2 diabetes were randomized to receive either Nateglinide Tablets alone (120 mg three times daily before meals), metformin alone (500 mg three times daily), a combination of Nateglinide Tablets 120 mg (three times daily before meals) and metformin (500 mg three times daily), or placebo. Fifty-seven percent of patients were previously untreated with oral antidiabetic therapy. Patients previously treated with antidiabetic medications were required to discontinue medication for at least 2 months before randomization. At Week 24, statistically significant reductions in mean HbA1c and FPG were observed with metformin monotherapy compared to Nateglinide Tablets monotherapy, and the combination of Nateglinide Tablets and metformin compared to either Nateglinide Tablets or metformin monotherapy (see Table 7).

Compared to placebo, Nateglinide Tablets monotherapy was associated with a statistically significant increase in mean body weight, while no significant change in body weight was observed with metformin monotherapy or combination of Nateglinide Tablets and metformin therapy (see Table 7). Among the subset of patients previously treated with other antidiabetic agents, primarily glyburide, HbA1C in the Nateglinide Tablets monotherapy group increased slightly from baseline, whereas HbA1C was reduced in the metformin monotherapy group (see Table 7).

Table 7: Endpoint Results for a 24-Week Study of Nateglinide Tablet	s
Monotherapy and Combination with Metformin	

	Placebo	Nateglinide Tablets 120 mg three times daily before meals	Metformin 500 mg three times daily	Nateglinide Tablets 120 mg before meals plus Metformin*
HbA <sub>1C</sub> (%) All	N=160	N=171	N=172	N=162
Baseline (mean)	8.3	8.3	8.4	8.4
Change from baseline (mean)	+0.4	-0.4 <sup>bc</sup>	-0.8 <sup>c</sup>	-1.5
Difference from placebo		-0.8 <sup>a</sup>	-1.2 <sup>a</sup>	-1.9 <sup>a</sup>
Naïve	N=98	N=99	N=98	N=81
Baseline (mean)	8.2	8.1	8.3	8.2
Change from baseline (mean)	+0.3	-0.7 <sup>c</sup>	-0.8 <sup>c</sup>	-1.6
Difference from placebo		-1.0ª	-1.1ª	-1.9ª
Non-Naïve	-	N=72	N=74	N=81
Baseline (mean)	8.3	8.5	8.7	8.7
Change from baseline (mean)	+0.6	+0.004 bc	-0.8 <sup>c</sup>	-1.4
Difference from placebo		-0.6 <sup>a</sup>	-1.4 <sup>a</sup>	-2.0 <sup>a</sup>
FPG (mg/dL) All	N=166	N=173	N=174	N=167
Baseline (mean)	194.0	196.5	196.0	197.7
Change from baseline (mean)	+8.0	-13.1 <sup>bc</sup>	-30.0 <sup>c</sup>	-44.9
Difference from placebo		-21.1ª	-38.0ª	-52.9ª

<sup>a</sup> p-value  $\leq 0.05$  vs. placebo

<sup>b</sup> p-value  $\leq 0.03$  vs. metformin

<sup>c</sup> p-value  $\leq$  0.05 vs. combination \* Metformin was administered three times daily

In another 24-week, double-blind, placebo-controlled trial, patients with type 2 diabetes with HbA1C greater than or equal to 6.8% after treatment with metformin (greater than or equal to 1500 mg daily for at least 1 month) were first entered into a four week run-in period of metformin monotherapy (2000 mg daily) and then randomized to receive either Nateglinide Tablets (60 mg or 120 mg three times daily before meals) or placebo as add-on to metformin. At the end of treatment, Nateglinide Tablets 60 mg and 120 mg three times daily resulted in a statistically significantly greater reductions in HbA1C compared to placebo when added to metformin (-0.4% and -0.6% for Nateglinide Tablets 60 mg and Nateglinide Tablets 120 mg plus metformin, respectively).

# Table 8: Endpoint Results for a 24-week Study of Nateglinide Tablets Monotherapy as Add-on to Metformin

	Placebo + metformin	Nateglinide Tablets 60 mg + metformin	Nateglinide Tablets 120 mg + metformin
HbA <sub>1C</sub> (%)	N=150	N=152	N=154
Baseline (mean)	8.2	8.0	8.2
Change from	0.01	-0.4	-0.6
baseline (mean)			
Difference from metformin		-0.4 <sup>a</sup>	-0.6 <sup>b</sup>

<sup>a</sup> p-value 0.003 vs. metformin

<sup>b</sup> p-value < 0.001 vs. metformin

All Nateglinide Tablets/placebo taken three times daily before meals; all metformin 1000 mg twice daily.

## 14.4 Add-On Combination Therapy with Rosiglitazone

A 24-week, double blind, multicenter, placebo-controlled trial was performed in patients with type 2 diabetes not adequately controlled on rosiglitazone 8 mg daily. The addition of Nateglinide Tablets (120 mg three times per day with meals) was associated with statistically significantly greater reductions in HbA1C compared to placebo as add-on to rosiglitazone. The mean change in weight from baseline was

+3 kg for patients treated with Nateglinide Tablets compared to +1 kg for patients treated with placebo when added to rosiglitazone.

## Table 9: Endpoint Results for a 24-week Study of the Effect of Adding Nateglinide Tablets or Placebo to Rosiglitazone

	Placebo + rosiglitazone 8 mg once daily	Nateglinide Tablets 120 mg before meals + rosiglitazone 8 mg once daily
HbA <sub>1C</sub> (%)	N=191	N=194
Baseline (mean)	8.4	8.3
Change from	0.03	-0.7
baseline (mean)		
Difference from		-0.7 <sup>a</sup>
rosiglitazone (mean)		

<sup>a</sup> p-value ≤0.0001

## 14.5 Add-On Combination Therapy with Glyburide

In a 12-week study of patients with type 2 diabetes inadequately controlled on glyburide 10 mg once daily, the addition of Nateglinide Tablets (60 mg or 120 mg three times daily before meals) did not produce any additional benefit.

## Table 10: Endpoint Results for a 12-week Study of the Effect of Adding Nateglinide Tablets or Placebo to Glyburide

	Placebo + glyburide 10 mg once daily	Nateglinide Tablets 60 mg before meals + glyburide 10 mg once daily	Nateglinide Tablets 120 mg before meals + glyburide 10 mg once daily
HbA <sub>1C</sub> (%)	N=58	N=55	N=54
Baseline (mean)	8.7	8.7	8.7
Change from baseline (mean)	0.3	0.2	-0.02
Difference from glyburide (mean)		-0.1 <sup>a</sup>	-0.3 <sup>b</sup>

Placebo or Nateglinide Tablets given 10 minutes prior to breakfast, lunch, and dinner; glyburide given with the breakfast dose of Nateglinide Tablets or placebo.

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

## **How Supplied**

Bottles of 2	100	NDC 16571-758-01
Bottles of !	500	NDC 16571-758-50

## 120 mg

Bottles of 100 ...... NDC 16571-759-01 Bottles of 500 ...... NDC 16571-759-50

### Storage and Handling

Store at 25°C (77°F); excursions permitted to 15°C-30°C (59°F-86°F). Dispense in a tight container, USP.

## **17 PATIENT COUNSELING INFORMATION**

## Administration

Instruct patients to take Nateglinide Tablets 1 to 30 minutes before meals. Instruct patients that skip meals to skip their dose of Nateglinide Tablets [see Dosage and Administration (2)].

## Hypoglycemia

Inform patients that Nateglinide Tablets can cause hypoglycemia and instruct patients and their caregivers on self- management procedures including glucose monitoring and management of hypoglycemia. Inform patients that their ability to concentrate and react may be impaired as a result of hypoglycemia. In patients at higher risk for hypoglycemia and patients who have reduced symptomatic awareness of hypoglycemia, increased frequency of blood glucose monitoring is recommended *[see Warnings and Precautions* (5.1)].

## Lactation

Advise patients that use of Nateglinide Tablet is not recommended while breastfeeding [see Use in Specific Populations (8.2)].

## **Drug Interactions**

Discuss potential drug interactions with patients and inform them of potential drug-drug interactions with Nateglinide Tablets.

Manufactured by:

USV Private Limited H-13,16,16A,17,18,19,20,21,E-22, OIDC, Mahatma Gandhi Udyog Nagar, Dabhel, Daman 396 210, India.



Manufactured for: Rising Pharma Holdings, Inc. East Brunswick, NJ 08816

Made In India

Revised: 08/2022

PIR75950-01

## PACKAGE LABEL.PRINCIPAL DISPLAY PANEL - 60MG

Rising<sup>®</sup> NDC 16571-**758-**01

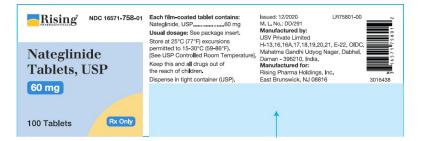
PHARMACEUTICALS

Nateglinide Tablets, USP

60mg

100 Tablets

Rx only



## PACKAGE LABEL.PRINCIPAL DISPLAY PANEL - 120MG

Rising® PHARMACEUTICALS NDC 16571-**759**-01

# Nateglinide Tablets, USP

120 mg

0 Tablets	Rx	only			
Rising	NDC 16571-759-01	Each film-coated tablet contains: Nateglinide, USP120 mg Usual dosage: See package insert.	Issued: 12/2020 M. L. No.: DD/291 Manufactured by: USV Private Limited	LR75901-00	
Nateglini Tablets, l		Store at 25°C (77°F) excursions permitted to 15-30°C (59-86°F). [See USP Controlled Room Temperature]. Keep this and all drugs out of the reach of children.	H-13,16,16A,17,18,19,20, Mahatma Gandhi Udyog N Daman - 396210, India, Manufactured for: Rising Pharma Holdings, I	Vagar, Dabhel,	316571759
120 mg		Dispense in tight container (USP).	East Brunswick, NJ 08816	5	3016439
100 Tablets	Rx Only		*		

## NATEGLINIDE

nateglinide tablet

Product Infor	mation						
Product Type		HUMAN PRESCR	IPTION DRUG	ltem C	ode (Source)	NDC	16571-758
Route of Admini	stration	ORAL			000 (000100)		
Route of Admini	stration	UNAL					
Active Ingredi	ent/Active	Moiety					
		edient Name			Basis of Str	enath	Strengt
NATEGLINIDE (UNII	-		UNII:41X3PWK4O2)		NATEGLINIDE		60 mg
Inactive Ingre	diants						
mactive mgre	ulents	Ingredier	nt Name				Strength
SILICON DIOXIDE	(UNII: ETJ7Z6X	•					
SODIUM STARCH			(UNII: 5856J3G2A2)	1			
MANNITOL (UNII: 3							
TALC (UNII: 7SEV7]4	4R1U)						
STARCH, CORN (UI		5J)					
POVIDONE K30 (U	NII: U725QWY3	2X)					
SODIUM STEARYL	FUMARATE (U	JNII: 7CV7WJK4UI)					
POLTETHTLENE G	LICOL, UNSP	ECIFIED (UNII: 31	NJQUSDWIA)				
HYPROMELLOSE,	UNSPECIFIED	(UNII: 3NXW29V3					
HYPROMELLOSE, I TITANIUM DIOXIDI FERRIC OXIDE REI	UNSPECIFIED E (UNII: 15FIX9'	(UNII: 3NXW29V3 V2JP)					
HYPROMELLOSE, TITANIUM DIOXIDI	UNSPECIFIED E (UNII: 15FIX9'	(UNII: 3NXW29V3 V2JP)					
HYPROMELLOSE, I TITANIUM DIOXIDI FERRIC OXIDE REI	UNSPECIFIED E (UNII: 15FIX9' D (UNII: 1K09F3	(UNII: 3NXW29V3 V2JP)					
HYPROMELLOSE, I TITANIUM DIOXIDI FERRIC OXIDE REI	UNSPECIFIED E (UNII: 15FIX9' D (UNII: 1K09F3	(UNII: 3NXW29V3 V2JP)					
HYPROMELLOSE, I TITANIUM DIOXIDI FERRIC OXIDE REI Product Chara	UNSPECIFIED E (UNII: 15FIX9' D (UNII: 1K09F3	(UNII: 3NXW29V3 V2JP) 8G675)			n	10 score	
HYPROMELLOSE, I TITANIUM DIOXIDI FERRIC OXIDE REI <b>Product Chara</b> Color	UNSPECIFIED E (UNII: 15FIX9' D (UNII: 1K09F3 Acteristics	(UNII: 3NXW29V3 V2JP) 8G675)	WO)			no score .0mm	
HYPROMELLOSE, I TITANIUM DIOXIDI FERRIC OXIDE REI <b>Product Chara</b> Color Shape	UNSPECIFIED E (UNII: 15FIX9' D (UNII: 1K09F3 Acteristics	(UNII: 3NXW29V3 V2JP) GG675) K	WO) Score		1		
HYPROMELLOSE, I TITANIUM DIOXIDI FERRIC OXIDE REI <b>Product Chara</b> Color Shape Flavor	UNSPECIFIED E (UNII: 15FIX9' D (UNII: 1K09F3 Acteristics	(UNII: 3NXW29V3 V2JP) GG675) K	WO) Score Size		1	.0mm	
HYPROMELLOSE, I TITANIUM DIOXIDI FERRIC OXIDE REI <b>Product Chara</b> Color Shape Flavor	UNSPECIFIED E (UNII: 15FIX9' D (UNII: 1K09F3 Acteristics	(UNII: 3NXW29V3 V2JP) GG675) K	WO) Score Size		1	.0mm	
HYPROMELLOSE, I TITANIUM DIOXIDI FERRIC OXIDE REI Product Chara Color Shape Flavor Contains	UNSPECIFIED E (UNII: 15FIX9' D (UNII: 1K09F3 Acteristics	(UNII: 3NXW29V3 V2JP) GG675) K	WO) Score Size		1	.0mm	
HYPROMELLOSE, I FITANIUM DIOXIDI FERRIC OXIDE REI Product Chara Color Shape Flavor Contains	UNSPECIFIED E (UNII: 15FIX9' D (UNII: 1K09F3 Acteristics	(UNII: 3NXW29V3 V2JP) GG675) K	WO) Score Size		1 N	.0mm 17;Plain	
HYPROMELLOSE, I TITANIUM DIOXIDI FERRIC OXIDE REI Product Chara Color Shape Flavor Contains Packaging	UNSPECIFIED E (UNII: 15FIX9' D (UNII: 1K09F3 Acteristics PIN RO	(UNII: 3NXW29V3 V2JP) GG675) K	WO) Score Size Imprint Code	Marke	1	.0mm 17;Plain Marke	eting End Date
HYPROMELLOSE, I TITANIUM DIOXIDI FERRIC OXIDE REI Product Chara Color Shape Flavor Contains Packaging # Item Code 1 NDC:16571-758-	UNSPECIFIED E (UNII: 15FIX9) O (UNII: 1K09F3 Acteristics PIN RO 90 in 1 BOTT Product	(UNII: 3NXW29V3 V2JP) GG675) K UND Ckage Descri LE; Type 0: Not a	WO) Score Size Imprint Code ption Combination	<b>Mark</b> (12/16/20	1 N eting Start Date	.0mm 17;Plain Marke	
HYPROMELLOSE, I TITANIUM DIOXIDI FERRIC OXIDE REI Product Chara Color Shape Flavor Contains Packaging # Item Code 1 NDC:16571-758- 099	UNSPECIFIED E (UNII: 15FIX9) O (UNII: 1K09F3 Acteristics PIN RO 90 in 1 BOTT Product	(UNII: 3NXW29V3 V2JP) IG675) K UND ckage Descri	WO) Score Size Imprint Code ption Combination		1 N Pating Start Date 20	.0mm 17;Plain Marke	
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P	roduct Infor	mation						
Pr	oduct Type		HUMAN F	RESCRIPTION DRUG	Item Code (	Source)	NDC:	16571-75
	oute of Admini	stration	ORAL			,		
		Strution						
4۵	tive Ingredi	ent/Acti	ive Moiety					
		In	gredient N	ame	Bas	sis of Str	rength	Streng
A	TEGLINIDE (UNII	: 41X3PWK	402) (NATEGLI	NIDE - UNII:41X3PWK4O	2) NATE	GLINIDE		120 mg
n	active Ingre	dients						
			Ingr	edient Name				Strengt
IL	ICON DIOXIDE	(UNII: ETJ72	-					
o	DIUM STARCH	GLYCOLAT	E TYPE A PO	<b>TATO</b> (UNII: 5856J3G2A	2)			
	ANNITOL (UNII: 3		4)					
	LC (UNII: 7SEV7J4							
	ARCH, CORN (UI							
	VIDONE K30 (U							
	DIUM STEARYL		• (UNII: 7CV7V	VJK4UI)				
~								
				UNII: 3WJQ0SDW1A)				
IY	PROMELLOSE,	UNSPECIF	IED (UNII: 3NX					
1Y	PROMELLOSE, I	UNSPECIF E (UNII: 15F	IED (UNII: 3NX FIX9V2JP)	W29V3WO)				
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Labeler - Rising Pharmaceuticals, Inc. (835513529)

# Establishment

 
 Name
 Address
 ID/FEI
 Business Operations

 USV Private Limited
 650434348
 ANALYSIS(16571-758, 16571-759), LABEL(16571-758, 16571-759), MANUFACTURE(16571-758, 16571-759), PACK(16571-758, 16571-759)

Revised: 8/2022

Rising Pharmaceuticals, Inc.