

PRODUCT NAME	: Roflumilast Tablets	COUNTRY : US	LOCATION : Indrad	Supersedes A/W No.:
ITEM / PACK	: Outsert	NO. OF COLORS: 1	REMARK :	V. No.: 01
DESIGN STYLE	: Front	PANTONE SHADE NOS.:	SUBSTRATE : 40 g/m ² Bible Paper	
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HIGHLIGHTS OF PRESCRIBING INFORMATION

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

ROFLUMILAST tablets, for oral use
Initial U.S. Approval: 2011

-----RECENT MAJOR CHANGES-----
Dosage and Administration (2) 1/2018
Warnings and Precautions, Psychiatric Events including Suicidality (5.2) 8/2017

-----INDICATIONS AND USAGE-----
Roflumilast is a selective phosphodiesterase 4 inhibitor indicated as a treatment to reduce the risk of COPD exacerbations in patients with severe COPD associated with chronic bronchitis and a history of exacerbations. (1, 14)
Limitations of Use: Roflumilast tablets are not a bronchodilator and is not indicated for the relief of acute bronchospasm. (1, 14)

Roflumilast tablets 250 mcg is a starting dose, for the first 4 weeks of treatment only and is not the effective (therapeutic) dose. (2, 14)

-----DOSAGE AND ADMINISTRATION-----
The maintenance dose for patients with COPD is one 500 mcg tablet per day, with or without food. Starting treatment with a dose of roflumilast tablets 250 mcg once daily for 4 weeks and increasing to roflumilast tablets 500 mcg once daily thereafter may reduce the rate of treatment discontinuation in some patients. (2)

---DOSAGE FORMS AND STRENGTHS---
Tablets: 250 mcg, 500 mcg (3)

-----CONTRAINDICATIONS-----
Moderate to severe liver impairment (Child-Pugh B or C) (4)

---WARNINGS AND PRECAUTIONS---
• Acute Bronchospasm: Do not use for the relief of acute bronchospasm. (5.1)
• Psychiatric Events including Suicidality: Advise patients, their caregivers, and families to be alert for

the emergence or worsening of insomnia, anxiety, depression, suicidal thoughts or other mood changes, and if such changes occur to contact their healthcare provider. Carefully weigh the risks and benefits of treatment with roflumilast tablets in patients with a history of depression and/or suicidal thoughts or behavior. (5.2)

• Weight Decrease: Monitor weight regularly. If unexplained or clinically significant weight loss occurs, evaluate weight loss and consider discontinuation of roflumilast tablets. (5.3)

• Drug Interactions: Use with strong cytochrome P450 enzyme inducers (e.g., rifampicin, phenobarbital, carbamazepine, phenytoin) is not recommended. (5.4)

-----ADVERSE REACTIONS-----
Most common adverse reactions (≥ 2%) are diarrhea, weight decrease, nausea, headache, back pain, influenza, insomnia, dizziness and decreased appetite. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Torrent Pharma Inc. at 1-800-912-9561 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

-----DRUG INTERACTIONS-----
Use with inhibitors of CYP3A4 or dual inhibitors of CYP3A4 and CYP1A2 (e.g., erythromycin, ketoconazole, fluvoxamine, enoxacin, cimetidine) will increase roflumilast systemic exposure and may result in increased adverse reactions. The risk of such concurrent use should be weighed carefully against benefit. (7.2)

-----USE IN SPECIFIC POPULATIONS-----
Nursing Mothers: Roflumilast tablets should not be used by women who are nursing as excretion of roflumilast and/or its metabolites into human milk is probable and there are no human studies that have investigated effects of roflumilast on breast-fed infants. (8.2)

See 17 for PATIENT COUNSELING INFORMATION and MEDICATION GUIDE
Revised: 7/2026

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

Roflumilast tablets are indicated as a treatment to reduce the risk of COPD exacerbations in patients with severe COPD associated with chronic bronchitis and a history of exacerbations.

Limitations of Use

Roflumilast tablets are not bronchodilator and are not indicated for the relief of acute bronchospasm. Roflumilast tablets 250 mcg is a starting dose, for the first 4 weeks of treatment only and is not the effective (therapeutic) dose.

2 DOSAGE AND ADMINISTRATION

The maintenance dose of roflumilast tablets is one 500 micrograms (mcg) tablet per day, with or without food.

Starting treatment with a dose of roflumilast tablets 250 mcg once daily for 4 weeks and increasing to roflumilast tablets 500 mcg once daily thereafter may reduce the rate of treatment discontinuation in some patients *[see Clinical Studies (14.1)]*. However, 250 mcg per day is not the effective (therapeutic) dose.

3 DOSAGE FORMS AND STRENGTHS

- Roflumilast tablets 250 mcg are white to off white, round shaped, flat faced, beveled edge uncoated tablets debossed with "250" on one side and plain on other side.
- Roflumilast tablets 500 mcg are white to off white, round shaped, flat faced, beveled edge uncoated tablets debossed with "76" on one side and plain on other side.

4 CONTRAINDICATIONS

The use of roflumilast is contraindicated in the following condition:

Moderate to severe liver impairment (Child-Pugh B or C) *[see Clinical Pharmacology (12.3) and Use in Specific Populations (8.6)]*.

5 WARNINGS AND PRECAUTIONS

5.1 Treatment of Acute Bronchospasm

Roflumilast is not a bronchodilator and should not be used for the relief of acute bronchospasm.

5.2 Psychiatric Events including Suicidality

Treatment with roflumilast is associated with an increase in psychiatric adverse reactions. In 8 controlled clinical trials 5.9% (263) of patients treated with roflumilast tablets 500 mcg daily reported psychiatric adverse reactions compared to 3.3% (137) treated with placebo. The most commonly reported psychiatric adverse reactions were insomnia, anxiety, and depression which were reported at higher rates in those treated with roflumilast tablets 500 mcg daily (2.4%, 1.4%, and 1.2% for roflumilast versus 1.0%, 0.9%, and 0.9% for placebo, respectively) *[see Adverse Reactions (6.1)]*. Instances of suicidal ideation and behavior, including completed suicide, have been observed in clinical trials. Three patients experienced suicide-related adverse reactions (one completed suicide and two suicide attempts) while receiving roflumilast (compared to one patient (suicidal ideation) who received placebo. One patient completed suicide while receiving roflumilast in Trial 9 *[see Clinical Studies (14.1)]*, which assessed the effect of adding roflumilast to a fixed-dose combination (FDC) of ICS/LABA on rates of exacerbations in COPD patients over 1 year of treatment. Cases of suicidal ideation and behavior, including completed suicide, have been observed in the post-marketing setting in patients with or without a history of depression.

Before using roflumilast in patients with a history of depression and/or suicidal thoughts or behavior, prescribers should carefully weigh the risks and benefits of treatment with roflumilast in such patients. Patients, their caregivers, and families should be advised of the need to be alert for the emergence or worsening of insomnia, anxiety, depression, suicidal thoughts or other mood changes, and if such changes occur to contact their healthcare provider. Prescribers should carefully evaluate the risks and benefits of continuing treatment with roflumilast if such events occur.

5.3 Weight Decrease

Weight loss was a common adverse reaction in roflumilast clinical trials and was reported in 7.5% (331) of patients treated with roflumilast tablets 500 mcg once daily compared to 2.1% (89) treated with placebo *[see Adverse Reactions (6.1)]*. In addition to being reported as adverse reactions, weight was prospectively assessed in two placebo-controlled clinical trials of one year duration. In these studies, 20% of patients receiving roflumilast experienced moderate weight loss (defined as between 5 to 10% of body weight) compared to 7% of patients who received placebo. In addition, 7% of patients who received roflumilast compared to 2% of patients receiving placebo experienced severe (>10% body weight) weight loss. During follow-up after treatment discontinuation, the majority of patients with weight loss regained some of the weight they had lost while receiving roflumilast. Patients treated with roflumilast should have their weight monitored regularly. If unexplained or clinically significant weight loss occurs, weight loss should be evaluated, and discontinuation of roflumilast should be considered.

5.4 Drug Interactions

A major step in roflumilast metabolism is the N-oxidation of roflumilast to roflumilast N-oxide by CYP3A4 and CYP1A2. The administration of the cytochrome P450 enzyme inducer rifampicin resulted in a reduction in exposure, which may result in a decrease in the therapeutic effectiveness of roflumilast. Therefore, the use of strong cytochrome P450 enzyme inducers (e.g., rifampicin, phenobarbital, carbamazepine, phenytoin) with roflumilast is not recommended *[see Drug Interactions (7.1) and Clinical Pharmacology (12.3)]*.

6 ADVERSE REACTIONS

The following adverse reactions are described in greater detail in other sections:

- Psychiatric Events Including Suicidality *[see Warnings and Precautions (5.2)]*
- Weight Decrease *[see Warnings and Precautions (5.3)]*

6.1 Adverse Reactions in Clinical Studies

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 safety data described below reflect exposure of 4438 patients to roflumilast tablets 500 mcg once daily in four 1-year placebo-controlled trials, two 6-month placebo-controlled trials, and two 6-month drug add-on trials *[see Clinical Studies (14.1)]*. In these trials, 3136 and 1232 COPD patients were exposed to roflumilast tablets 500 mcg once daily for 6 months and 1-year, respectively.

The population had a median age of 64 years (range 40 to 91), 73% were male, 92.9% were Caucasian, and had COPD with a mean pre-bronchodilator forced expiratory volume in one second (FEV₁) of 8.9 to 89.1 predicted. In these trials, 68.5% of the patients treated with roflumilast tablets reported an adverse reaction compared with 65.3% treated with placebo.

The proportion of patients who discontinued treatment due to adverse reaction was 14.8% for roflumilast tablets-treated patients and 9.9% for placebo-treated patients. The most common adverse reactions that led to discontinuation of roflumilast were diarrhea (2.4%) and nausea (1.6%).

Serious adverse reactions, whether considered drug-related or not by the investigators, which occurred more frequently in roflumilast-treated patients include diarrhea, atrial fibrillation, lung cancer, prostate cancer, acute pancreatitis, and acute renal failure.

Table 1 summarizes the adverse reactions reported by ≥ 2% of patients in the roflumilast group in 8 controlled COPD clinical trials.

Table 1: Adverse Reactions Reported by ≥ 2% of Patients Treated with Roflumilast tablets 500 mcg daily and Greater Than Placebo

Adverse Reactions (Preferred Term)	Treatment	
	Roflumilast Tablets (N=4438)	Placebo (N=4192)
	n (%)	n (%)
Diarrhea	420 (9.5)	113 (2.7)
Weight decreased	331 (7.5)	89 (2.1)
Nausea	209 (4.7)	60 (1.4)
Headache	195 (4.4)	87 (2.1)
Back pain	142 (3.2)	92 (2.2)
Influenza	124 (2.8)	112 (2.7)
Insomnia	105 (2.4)	41 (1.0)
Dizziness	92 (2.1)	45 (1.1)
Decreased appetite	91 (2.1)	15 (0.4)

Adverse reactions that occurred in the roflumilast group at a frequency of 1 to 2% where rates exceeded that in the placebo group include:

Gastrointestinal disorders - abdominal pain, dyspepsia, gastritis, vomiting
Infections and infestations - rhinitis, sinusitis, urinary tract infection
Musculoskeletal and connective tissue disorders - muscle spasms
Nervous system disorders - tremor

Psychiatric disorders - anxiety, depression

The safety profile of roflumilast reported during Trial 9 was consistent with the key pivotal studies.

6.2 Postmarketing Experience

The following adverse reactions have been identified from spontaneous reports of roflumilast received worldwide and have not been listed elsewhere. These adverse reactions have been chosen for inclusion due to a combination of seriousness, frequency of reporting or potential causal connection to roflumilast. Because these adverse reactions were reported voluntarily from a population of uncertain size, it is not possible to estimate their frequency or establish a causal relationship to roflumilast exposure: hypersensitivity reactions (including angioedema, urticaria, and rash), gynecomastia.

7 DRUG INTERACTIONS

A major step in roflumilast metabolism is the N-oxidation of roflumilast to roflumilast N-oxide by CYP3A4 and CYP1A2 *[see Clinical Pharmacology (12.3)]*.

7.1 Drugs that Induce Cytochrome P450 (CYP) Enzymes

Strong cytochrome P450 enzyme inducers decrease systemic exposure to roflumilast and may reduce the therapeutic effectiveness of roflumilast. Therefore the use of strong cytochrome P450 inducers (e.g., rifampicin, phenobarbital, carbamazepine, and phenytoin) with roflumilast is not recommended *[see Warnings and Precautions (5.4) and Clinical Pharmacology (12.3)]*.

7.2 Drugs that Inhibit Cytochrome P450 (CYP) Enzymes

The co-administration of roflumilast tablets (500 mcg) with CYP3A4 inhibitors or dual inhibitors that inhibit both CYP3A4 and CYP1A2 simultaneously (e.g., erythromycin, ketoconazole, fluvoxamine, enoxacin, cimetidine) may increase roflumilast systemic exposure and may result in increased adverse reactions. The risk of such concurrent use should be weighed carefully against benefit *[see Clinical Pharmacology (12.3)]*.

7.3 Oral Contraceptives Containing Gestodene and Ethinyl Estradiol

The co-administration of roflumilast tablets (500 mcg) with oral contraceptives containing gestodene and ethinyl estradiol may increase roflumilast systemic exposure and may result in increased side effects. The risk of such concurrent use should be weighed carefully against benefit *[see Clinical Pharmacology (12.3)]*.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

There are no randomized clinical studies of Roflumilast tablets in pregnant women. In animal reproductive toxicity studies, roflumilast tablets administered to pregnant rats and rabbits during the period of organogenesis produced no fetal structural abnormalities. The highest Roflumilast tablets dose in these studies was approximately 30 and 26 times, respectively, the maximum recommended human dose (MRHD). Roflumilast tablets induced post-implantation loss in rats at doses greater than or equal to approximately 10 times the MRHD. Roflumilast tablets induced stillbirth and decreased pup viability in mice at doses corresponding to approximately 16 and 49 times, respectively, the MRHD. Roflumilast tablets has been shown to adversely affect pup post-natal development when dams were treated with the drug during pregnancy and lactation periods in mice at doses corresponding to 49 times the MRHD *(see Data)*.

The background risk of major birth defects and miscarriage for the indicated population is unknown. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2 to 4% and 15 to 20%, respectively.

Clinical Considerations

Labor and delivery

Roflumilast tablets should not be used during labor and delivery. There are no human studies that have investigated effects of roflumilast on preterm labor or labor at term; however, animal studies showed that roflumilast disrupted the labor and delivery process in mice.

Data

Animal data

In an embryo-fetal development study, pregnant rats were dosed orally during the period of organogenesis with up to 1.8 mg/kg/day roflumilast (approximately 30 times the MRHD on an AUC basis). No evidence of structural abnormalities or effects on survival rates were observed. Roflumilast did not affect embryo-fetal development at approximately 3 times the MRHD (on a mg/m² basis at a maternal oral dose of 0.2 mg/kg/day).

In a fertility and embryo-fetal development study, male rats were dosed orally with up to 1.8 mg/kg/day roflumilast for 10 weeks and females for two weeks prior to pairing and throughout the organogenesis period. Roflumilast induced pre- and post-implantation loss at doses greater than or equal to approximately 10 times the MRHD (on a mg/m² basis at maternal oral doses greater than or equal to 0.6 mg/kg/day). Roflumilast did not cause fetal structural abnormalities at exposures up to approximately 29 times the MRHD (on an AUC basis at maternal oral doses up to 1.8 mg/kg/day).

In an embryo-fetal development study in rabbits, pregnant does were dosed orally with 0.8 mg/kg/day Roflumilast tablets during the period of organogenesis. Roflumilast tablets did not cause fetal structural abnormalities at exposures approximately 26 times the MRHD (on a mg/m² basis at maternal oral doses of 0.8 mg/kg/day).

In pre- and post-natal developmental studies in mice, dams were dosed orally with up to 12 mg/kg/day roflumilast during the period of organogenesis and lactation. Roflumilast induced stillbirth and decreased pup viability at doses corresponding to approximately 16 and 49 times, respectively, the MRHD (on a mg/m² basis at maternal doses >2 mg/kg/day and 6 mg/kg/day, respectively). Roflumilast induced delivery retardation in pregnant mice at doses greater or equal to approximately 16 times the MRHD (on a mg/m² basis at maternal doses >2 mg/kg/day). Roflumilast decreased pup rearing frequencies at approximately 49 times the MRHD (on a mg/m² basis at a maternal dose of 6 mg/kg/day) during pregnancy and lactation. Roflumilast also decreased survival and forelimb grip reflex and delayed pinna detachment in mouse pups at approximately 97 times the MRHD (on a mg/m² basis at a maternal dose of 12 mg/kg/day).

8.2 Lactation

Risk Summary

There is no information regarding the presence of Roflumilast in human milk, the effects on the breastfed infant, or the effects on milk production.

Roflumilast and/or its metabolites are excreted into the milk of lactating rats. Excretion of roflumilast and/or its metabolites into human milk is probable. Roflumilast tablets should not be used by women who are nursing.

Data

Animal data

Roflumilast and/or its metabolite concentrations measured 8 hours after an oral dose of 1 mg/kg given to lactating rats were 0.32 and 0.02 mcg/g in the milk and pup liver, respectively.

8.4 Pediatric Use

COPD does not normally occur in children. The safety and effectiveness of roflumilast in pediatric patients have not been established.

8.5 Geriatric Use

Of the 4438 COPD subjects exposed to roflumilast for up to 12 months in 8 controlled clinical trials, 2022 were > 65 years of age and 471 were > 75 years of age. No overall differences in safety or effectiveness were observed between these subjects and younger subjects and other reported clinical experience has not identified differences in responses between the elderly and younger patients, but greater sensitivity of some older individuals cannot be ruled out. Based on available data for roflumilast, no adjustment of dosage in geriatric patients is warranted *[see Clinical Pharmacology (12.3)]*.

8.6 Hepatic Impairment

Roflumilast 250 mcg once daily for 14 days was studied in subjects with mild-to-moderate hepatic impairment classified as Child-Pugh A and B (8 subjects in each group). The AUCs of roflumilast and roflumilast N-oxide were increased by 51% and 24%, respectively, in Child-Pugh A subjects and by 92% and 41%, respectively, in Child-Pugh B subjects, as compared to age-, weight- and gender-matched healthy subjects. The C_{max} of roflumilast and roflumilast N-oxide were increased by 3% and 26%, respectively in Child-Pugh A subjects and by 26% and 40%, respectively in Child-Pugh B subjects, as compared to healthy subjects. Roflumilast tablets 500 mcg have not been studied in hepatically impaired patients. Clinicians should consider the risk-benefit of administering roflumilast to patients who have mild liver impairment (Child-Pugh A). Roflumilast is not recommended for use in patients with moderate or severe liver impairment (Child-Pugh B or C) *[see Contraindications (4) and Clinical Pharmacology (12.3)]*.

8.7 Renal Impairment

In twelve subjects with severe renal impairment administered a single dose of 500 mcg roflumilast, the AUCs of roflumilast and roflumilast N-oxide were decreased by 21% and 7%, respectively and C_{max} were reduced by 16% and 12%, respectively. No dosage adjustment is necessary for patients with renal impairment *[see Clinical Pharmacology (12.3)]*.

10 OVERDOSAGE

10.1 Human Experience

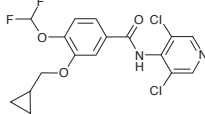
No case of overdose has been reported in clinical studies with roflumilast tablets. During the Phase I studies of roflumilast tablets, the following symptoms were observed at an increased rate after a single oral dose of 2500 mcg and a single dose of 5000 mcg: headache, gastrointestinal disorders, dizziness, palpitations, lightheadedness, clamminess, and arterial hypotension.

10.2 Management of Overdose

In case of overdose, patients should seek immediate medical help. Appropriate supportive medical care should be provided. Since roflumilast is highly protein bound, hemodialysis is not likely to be an efficient method of drug removal. It is not known whether roflumilast is dialyzable by peritoneal dialysis.

11 DESCRIPTION

The active ingredient in roflumilast tablets is roflumilast, USP. Roflumilast and its active metabolite (roflumilast N-oxide) are selective phosphodiesterase 4 (PDE4) inhibitors. The chemical name of roflumilast is N-(3,5-dichloropyridin-4-yl)-3-cyclopropylmethoxy-4-difluoromethoxy-benzamide. Its empirical formula is C₁₈H₁₄Cl₂F₂N₂O₃ and the molecular weight is 403.22. The chemical structure is:



The drug substance is a white to off-white non-hygroscopic powder with a melting point of 160°C. It is practically insoluble in water and hexane, sparingly soluble in ethanol, and freely soluble in acetone.

Roflumilast tablets 250 and 500 mcg are supplied as white to off white, round shaped, flat faced, beveled edge uncoated tablets debossed with "250" or "76" on one side and plain on other side. Each tablet contains 250 mcg or 500 mcg of roflumilast, USP.

Each tablet of roflumilast for oral administration contains the following inactive ingredients: carboxymethyl cellulose calcium, lactose monohydrate, magnesium stearate, maize starch and polyvinyl alcohol.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Roflumilast and its active metabolite (roflumilast N-oxide) are selective inhibitors of phosphodiesterase 4 (PDE4). Roflumilast and roflumilast N-oxide inhibition of PDE4 (a major cyclic-3',5'-adenosine monophosphate (cyclic AMP)-metabolizing enzyme in lung tissue) activity leads to accumulation of intracellular cyclic AMP. While the specific mechanism(s) by which roflumilast exerts its therapeutic action in COPD patients is not well defined, it is thought to be related to the effects of increased intracellular cyclic AMP in lung cells.

12.2 Pharmacodynamics

In COPD patients, 4-week treatment with roflumilast tablets 500 mcg oral once daily reduced sputum neutrophils and eosinophils by 31%, and 42%, respectively. In a pharmacodynamic study in healthy volunteers, roflumilast tablets 500 mcg once daily reduced the number of total cells, neutrophils and eosinophils found in bronchoalveolar lavage fluid following segmental pulmonary lipopolysaccharide (LPS) challenge by 35%, 38% and 73%, respectively. The clinical significance of these findings is unknown.

12.3 Pharmacokinetics

Absorption

The absolute bioavailability of roflumilast following a 500 mcg oral dose is approximately 80%. Maximum plasma concentrations (C_{max}) of roflumilast typically occur approximately one hour after dosing (ranging from 0.5 to 2 hours) in the fasted state while plateau-like maximum concentrations of the N-oxide metabolite are reached in approximately eight hours (ranging from 4 to 13 hours). Food has no effect on total drug absorption, but delays time to maximum concentration (T_{max}) of roflumilast by one hour and reduces C_{max} by approximately 40%, however, C_{max} and T_{max} of roflumilast N-oxide are unaffected. An *in vitro* study showed that roflumilast and roflumilast N-oxide did not inhibit P-gp transporter.

Distribution

Plasma protein binding of roflumilast and its N-oxide metabolite is approximately 99% and 97%, respectively. Volume of distribution for single-dose 500 mcg roflumilast is about 2.9 L/kg. Studies in rats with radiolabeled roflumilast indicate low penetration across the blood-brain barrier.

Metabolism

Roflumilast is extensively metabolized via Phase I (cytochrome P450) and Phase II (conjugation) reactions. The N-oxide metabolite is the only major metabolite observed in the plasma of humans. Together, roflumilast and roflumilast N-oxide account for the majority (87.5%) of total dose administered in plasma. In urine, roflumilast was not detectable while roflumilast N-oxide was only a trace metabolite (less than 1%). Other conjugated metabolites such as roflumilast N-oxide glucuronide and 4-amino-3,5-dichloropyridine N-oxide were detected in urine.

While roflumilast is three times more potent than

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Maalox: 30 mL po SD; Salbutamol: 0.2 mg po TID; Cimetidine: 400 mg po BID; Formoterol: 40 mcg po BID; Budesonide: 400 mcg po BID; Theophylline: 375 mg po BID; Warfarin:250 mg po SD; Enoxacin: 400 mg po BID; Sildenafil:100 mg SD; Minulet (combination oral contraceptive): 0.075 mg gestodene/0.03 mg ethinylestradiol po QD; Montelukast: 10 mg po QD

Drug interactions considered to be significant are described in more detail below [*See Warnings and Precautions (5.4) and Drug Interactions (7).*].

Inhibitors of CYP3A4 and CYP1A2:
Erythromycin: In an open-label crossover study in 16 healthy volunteers, the coadministration of CYP3A4 inhibitor erythromycin (500 mg three times daily for 13 days) with a single oral dose of 500 mcg roflumilast tablets resulted in 40% and 70% increase in C_{max} and AUC for roflumilast, respectively, and a 34% decrease and a 4% increase in C_{max} and AUC for roflumilast N-oxide, respectively.

Ketoconazole: In an open-label crossover study in 16 healthy volunteers, the coadministration of a strong CYP 3A4 inhibitor ketoconazole (200 mg twice daily for 13 days) with a single oral dose of 500 mcg roflumilast tablets resulted in 23% and 99% increase in C_{max} and AUC for roflumilast, respectively, and a 38% reduction and 3% increase in C_{max} and AUC for roflumilast N-oxide, respectively.

Fluvoxamine: In an open-label crossover study in 16 healthy volunteers, the coadministration of dual CYP 3A4/1A2 inhibitor fluvoxamine (50 mg daily for 14 days) with a single oral dose of 500 mcg roflumilast tablets showed a 12% and 156% increase in roflumilast C_{max} and AUC along with a 210% decrease and 52% increase in roflumilast N-oxide C_{max} and AUC, respectively.

Enoxacin: In an open-label crossover study in 16 healthy volunteers, the coadministration of dual CYP 3A4/1A2 inhibitor enoxacin (400 mg twice daily for 12 days) with a single oral dose of 500 mcg roflumilast tablets resulted in an increased C_{max} and AUC of roflumilast by 20% and 56%, respectively. Roflumilast N-oxide C_{max} was decreased by 14% while roflumilast N-oxide AUC was increased by 23%.

Cimetidine: In an open-label crossover study in 16 healthy volunteers, the coadministration of a dual CYP 3A4/1A2 inhibitor cimetidine (400 mg twice daily for 7 days) with a single dose of 500 mcg oral roflumilast tablets resulted in a 46% and 85% increase in roflumilast C_{max} and AUC, and a 4% decrease in C_{max} and 27% increase in AUC for roflumilast N-oxide, respectively.

Oral Contraceptives containing Gestodene and Ethinyl Estradiol: In an open-label crossover study in 20 healthy adult volunteers, coadministration of a single oral dose of 500 mcg roflumilast tablets with repeated doses of a fixed combination oral contraceptive containing 0.075 mg gestodene and 0.03 mg ethinyl estradiol to steady state caused a 38% increase and 12 % decrease in C_{max} of roflumilast and roflumilast N-oxide, respectively. Roflumilast and roflumilast N-oxide AUCs were increased by 51% and 14%, respectively.

Inducers of CYP enzymes:
Rifampicin: In an open-label, three-period, fixed-sequence study in 15 healthy volunteers, coadministration of the strong CYP3A4 inducer rifampicin (600 mg once daily for 11 days) with a single oral dose of 500 mcg roflumilast tablets resulted in reduction of roflumilast C_{max} and AUC by 68% and 79%, respectively; and an increase of roflumilast N-oxide C_{max} by 30% and reduced roflumilast N-oxide AUC by 56%.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Long-term studies were conducted in hamsters and mice with roflumilast to evaluate its carcinogenic potential. In 2-year oral gavage carcinogenicity studies, roflumilast treatment resulted in dose-related, statistically significant increases in the incidence of undifferentiated carcinomas of nasal epithelium in hamsters at ≥ 8 mg/kg/day (approximately 11 times the MRHD based on summed AUCs of roflumilast and its metabolites).

The tumorigenicity of roflumilast appears to be attributed to a reactive metabolite of 4-amino-3,5-dichloro-pyridine N-oxide (ADCP N-oxide). No evidence of tumorigenicity was observed in mice at roflumilast oral doses up to 12 and 18 mg/kg/day in females and males, respectively (approximately 10 and 15 times the MRHD, respectively, based on summed AUCs of roflumilast and its metabolites).

Roflumilast tested positive in an *in vivo* mouse micronucleus test, but negative in the following assays: Ames test for bacterial gene mutation, *in vitro* chromosome aberration assay in human lymphocytes, *in vitro* HPRT test with V79 cells, an *in vitro* micronucleus test with V79 cells, DNA adduct formation assay in rat nasal mucosa, liver and testes, and *in vivo* mouse bone marrow chromosome aberration assay. Roflumilast N-oxide was negative in the Ames test and *in vitro* micronucleus test with V79 cells.

In a human spermatogenesis study, roflumilast 500 mcg had no effects on semen parameters or reproductive hormones during the 3-month treatment period and the following 3-month off-treatment period. In a fertility study, roflumilast decreased fertility rates in male rats at 1.8 mg/kg/day (approximately 29 times the MRHD on a mg/m² basis). The male rats also showed increases in the incidence of tubular atrophy, degeneration in the testis and spermiogenic granuloma in the epididymides. No effect on male rat fertility rate or male reproductive organ morphology was observed at 0.6 mg/kg/day (approximately 10 times the MRHD on a mg/m² basis). In a female fertility study, no effect on fertility was observed up to the highest roflumilast dose of 1.5 mg/kg/day in rats (approximately 24 times the MRHD on a mg/m² basis).

14 CLINICAL STUDIES

14.1 Chronic Obstructive Pulmonary Disease (COPD)

The efficacy and safety of roflumilast in COPD was evaluated in 8 randomized, double-blind, controlled, parallel-group clinical trials in 9394 adult patients (4425 receiving roflumilast tablets 500 mcg) 40 years of age and older with COPD. Of the 8 trials, two were placebo-controlled dose selection trials (Trials 1 and 2) of 6 months duration that evaluated the efficacy of roflumilast tablets 250 mcg and 500 mcg once daily, four were placebo-controlled 1-year trials (Trials 3, 4, 5, and 6) primarily designed to evaluate the efficacy of roflumilast on COPD exacerbations, and two were 6-month efficacy trials (Trials 7 and 8) which assessed the effect of roflumilast as add-on therapy to a long-acting beta agonist or long-acting anti-muscarinic. The 8 trials enrolled patients with nonreversible obstructive lung disease (FEV₁/FVC ≤ 70% and ≤ 12% or 200 mL improvement in FEV₁ in response to 4 puffs of albuterol/salbutamol) but the severity of airflow obstruction at baseline was different among the trials. Patients enrolled in the dose selection trials had the full range of COPD severity (FEV₁ 30 to 80% predicted); median age of 63 years, 73% male, and 99% Caucasian. Patients enrolled in the four exacerbation trials had severe COPD (FEV₁ ≤ 50% predicted); median age of 64 years, 74% male, and 90% Caucasian.

Patients enrolled in the two 6-month efficacy trials had moderate to severe COPD (FEV₁ 40 to 70% predicted); median age of 65 years, 68% male, and 97% Caucasian. COPD exacerbations and lung function (FEV₁) were co-primary efficacy outcome measures in the four 1-year trials. In the two 6-month supportive efficacy trials, lung function (FEV₁) alone was the primary efficacy outcome measure.

The two 6-month dose-selection efficacy trials (Trials 1 and 2) explored doses of 250 mcg and 500 mcg once-daily in a total of 1929 patients (751 and 724 on roflumilast tablets 250 and 500 mcg, respectively). The selection of the 500 mcg dose was primarily based on nominal improvements in lung function (FEV₁) over the 250 mcg

dose. The once-daily dosing regimen was primarily based on the determination of a plasma half-life of 17 hours for roflumilast and 30 hours for its active metabolite roflumilast N-oxide [*see Clinical Pharmacology (12.3)*].

An additional placebo-controlled 1-year trial (Trial 9) evaluated the effect of roflumilast tablets 500 mcg on COPD exacerbations when added to a fixed-dose combination (FDC) product containing an inhaled corticosteroid and long-acting beta agonist (ICS/LABA). At screening, patients were required to have two or more exacerbations in the previous year. This trial randomized a total of 2,354 patients (1,178 randomized to roflumilast tablets, 1,176 to placebo). Approximately 60% of the patients enrolled had severe COPD (postbronchodilator FEV₁ 30% to 50% of predicted) associated with chronic bronchitis and 39% had very severe COPD (postbronchodilator FEV₁ ≤ 30% of predicted) associated with chronic bronchitis; mean age of 64 years, 69% male, and 80% Caucasian. The use of long-acting muscarinic antagonists was allowed.

Effect on Exacerbations

The effect of roflumilast tablets 500 mcg once daily on COPD exacerbations was evaluated in five 1-year trials (Trials 3, 4, 5, 6 and 9).

Two of the trials (Trials 3 and 4) conducted initially enrolled a population of patients with severe COPD (FEV₁ ≤ 50% of predicted) inclusive of those with chronic bronchitis and/or emphysema who had a history of smoking of at least 10 pack years. Inhaled corticosteroids were allowed as concomitant medications and used in 61% of both roflumilast and placebo-treated patients and short-acting beta agonists were allowed as rescue therapy. The use of long-acting beta agonists, long-acting anti-muscarinics, and theophylline were prohibited. The rate of moderate or severe COPD exacerbations was a co-primary endpoint in both trials. There was not a symptomatic definition of exacerbation in these 2 trials. Exacerbations were defined in terms of severity requiring treatment with a moderate exacerbation defined as treatment with systemic glucocorticosteroids in Trial 3 or systemic glucocorticosteroids and/or antibiotics in Trial 4 and a severe exacerbation defined as requiring hospitalizations and/or leading to death in Trial 3 or requiring hospitalization in Trial 4. The trials randomized 1176 patients (567 on roflumilast tablets) in Trial 3 and 1514 patients (760 on roflumilast tablets) in Trial 4. Both trials failed to demonstrate a significant reduction in the rate of COPD exacerbations.

Exploratory analyses of the results of Trials 3 and 4 identified a subpopulation of patients with severe COPD associated with chronic bronchitis and COPD exacerbations within the previous year that appeared to demonstrate a better response in the reduction of the rate of COPD exacerbations compared to the overall population. As a result, two subsequent trials (Trial 5 and Trial 6) were conducted that enrolled patients with severe COPD but associated with chronic bronchitis, at least one COPD exacerbation in the previous year, and at least a 20 pack-year smoking history. In these trials, long-acting beta agonists and short-acting anti-muscarinics were allowed and were used by 44% and 35% of patients treated with roflumilast tablets and 45% and 37% of patients treated with placebo, respectively. The use of inhaled corticosteroids was prohibited. As in trials 3 and 4, the rate of moderate exacerbations (defined as requiring intervention with systemic glucocorticosteroids) or severe exacerbations (defined as leading to hospitalization and/or to death) was a co-primary endpoint.

Trial 5 randomized a total of 1525 patients (765 on roflumilast tablets) and Trial 6 randomized a total of 1571 patients (772 on roflumilast tablets). In both trials, roflumilast tablets 500 mcg once daily demonstrated a significant reduction in the rate of moderate or severe exacerbations compared to placebo (Table 2). These two trials provide the evidence to support the use of roflumilast for the reduction of COPD exacerbations.

Table 2. Effect of Roflumilast on Rate of Moderate or Severe Exacerbations

Study	Exacerbations Per Patient-Year			RR ²	95% CI	Percent Reduction ¹
	Roflumilast	Placebo	Absolute Reduction ¹			
Trial 5	1.1	1.3	0.2	0.85	0.74, 0.98	15
Trial 6	1.2	1.5	0.3	0.82	0.71, 0.94	18

1. Absolute reduction measured as difference between placebo and roflumilast-treated patients.
2. RR is Rate Ratio.
3. Percent reduction is defined as 100 (1-RR).

For patients in Trials 5 and 6 who received concomitant long-acting beta agonists or short-acting anti-muscarinics, reduction of moderate or severe exacerbations with roflumilast was similar to that observed for the overall populations of the two trials.

In Trial 9, when added to background therapy of FDC ICS/LABA, the rate ratio for COPD exacerbations among patients administered roflumilast vs. placebo was 0.92 (95% CI 0.81, 1.04).

Effect on Lung Function

While roflumilast is not a bronchodilator, all 1-year trials (Trials 3, 4, 5, and 6) evaluated the effect of roflumilast on lung function as determined by the difference in FEV₁ between roflumilast and placebo-treated patients (pre-bronchodilator FEV₁ measured prior to study drug administration in three of the trials and post-bronchodilator FEV₁ measured 30 minutes after administration of 4 puffs of albuterol/salbutamol in one trial) as a co-primary endpoint. In each of these trials roflumilast tablets 500 mcg once daily demonstrated a statistically significant improvement in FEV₁ which averaged approximately 50 mL across the four trials. Table 3 shows FEV₁ results from Trials 5 and 6 which had demonstrated a significant reduction in COPD exacerbations.

Table 3. Effect of Roflumilast on FEV₁

Study	Change in FEV ₁ from Baseline, mL			
	Roflumilast	Placebo	Effect ¹	95% CI
Trial 5	46	8	39	18, 60
Trial 6	33	-25	58	41, 75

¹ Effect measured as difference between roflumilast and placebo treated patients.

Lung function was also evaluated in two 6-month trials (Trials 7 and 8) to assess the effect of roflumilast when administered as add-on therapy to treatment with a long-acting beta agonist or a long-acting anti-muscarinic. These trials were conducted in a different population of COPD patients [moderate to severe COPD (FEV₁ 40 to 70% of predicted) without a requirement for chronic bronchitis or frequent history of exacerbations] from that for which efficacy in reduction of exacerbations has been demonstrated and provide safety support to the roflumilast COPD program.

Starting dose titration trial

The tolerability of roflumilast was evaluated in a 12-week randomized, double-blind, parallel group trial in patients with severe COPD associated with chronic bronchitis (Trial 10). At screening, patients were required to have had at least one exacerbation in the previous year. A total of 1323 patients were randomized to receive roflumilast tablets 500 mcg once a day for 12 weeks (n=443), roflumilast tablets 500 mcg every other day for 4 weeks followed by roflumilast tablets 500 mcg once a day for 8 weeks (n=439), or roflumilast tablets 250 mcg once a day for 4 weeks followed by roflumilast tablets 500 mcg once a day for 8 weeks (n=441).

Over the 12 week study period, the percentage of patients discontinuing treatment was

6.2% lower in patients initially receiving roflumilast tablets 250 mcg daily for 4 weeks followed by roflumilast tablets 500 mcg daily for 8 weeks (18.4%) compared to those receiving roflumilast tablets 500 mcg daily for 12 weeks (24.6%) (Odds Ratio = 0.66; 95% CI: 0.47 to 0.93; p=0.017). Because this trial was limited to 12 weeks in duration, whether initiation of dosing with roflumilast tablets 250 mcg improves the long term tolerability of roflumilast tablets 500 mcg has not been determined.

16 HOW SUPPLIED/STORAGE AND HANDLING

16.1 How Supplied

Roflumilast tablets 500 mcg are supplied as white to off white, round shaped, flat faced, beveled edge uncoated tablets debossed with “76” on one side and plain on other side.

Roflumilast tablets 500 mcg are available:

Bottles of 30:	NDC-13668-476-30
Bottles of 90:	NDC-13668-476-90
Bottles of 500:	NDC-13668-476-05
10X10 Unit Dose:	NDC-13668-476-74

Roflumilast tablets 250 mcg are supplied as white to off white, round shaped, flat faced, beveled edge uncoated tablets debossed with “250” on one side and plain on other side.

Bottles of 30:	NDC-13668-654-30
10X10 Unit Dose:	NDC-13668-654-74

16.2 Storage and Handling

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

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Medication Guide).

• Bronchospasm

Roflumilast tablets are not a bronchodilator and should not be used for immediate relief of breathing problems (i.e., as a rescue medication).

• Psychiatric Events including Suicidality

Treatment with roflumilast tablets is associated with an increase in psychiatric adverse reactions. Cases of suicidal ideation and behavior, including completed suicide, have been observed in the post-marketing setting in patients with or without a history of depression. The risks and benefits of treatment with roflumilast tablets in patients with a history of depression and/or suicidal thoughts or behavior should be carefully considered. Advise patients, caregivers, and families to be alert for the emergence or worsening of insomnia, anxiety, depression, suicidal thoughts or other mood changes, and if such changes occur to contact their healthcare provider so that the risks and benefits of continuing treatment with roflumilast tablets may be considered [*see Warnings and Precautions (5.3)*].

• Weight Decrease

Weight loss was a common adverse reaction in roflumilast tablets clinical trials. During follow-up after treatment discontinuation, the majority of patients with weight loss regained some of the weight they had lost while receiving roflumilast tablets. Advise patients treated with roflumilast tablets to have their weight monitored regularly. If unexplained weight loss occurs, patients should inform their healthcare provider so that the weight loss can be evaluated, as discontinuation of roflumilast tablets may need to be considered [*see Warnings and Precautions (5.3)*].

• Drug Interactions

The use of cytochrome P450 enzyme inducers resulted in a reduction in exposure which may result in decreased therapeutic effectiveness of roflumilast tablets. The use of strong cytochrome P450 enzyme inducers (e.g., rifampicin, phenobarbital, carbamazepine, phenytoin) with roflumilast tablets is not recommended [*see Drugs that Induce Cytochrome P450 (CYP) Enzymes (7.1) and Clinical Pharmacology (12.3)*].

Medication Guide

Roflumilast (roe flue’ mi last) Tablets

Read this Medication Guide before you start taking roflumilast tablets and each time you get a refill. There may be new information. This information does not take the place of talking with your healthcare provider about your medical condition or treatment.

What is the most important information I should know about roflumilast tablets?

Roflumilast tablets can cause serious side effects. Tell your healthcare provider right away if you have any of the symptoms listed below while taking roflumilast tablets.

- 1. Roflumilast tablets may cause mental health problems including suicidal thoughts and behavior.** Some people taking roflumilast tablets may develop mood or behavior problems including:
 - thoughts of suicide or dying
 - attempt to commit suicide
 - trouble sleeping (insomnia)
 - new or worse anxiety
 - new or worse depression
 - acting on dangerous impulses
 - other unusual changes in your behavior or mood

- 2. Weight loss.** Roflumilast tablets can cause weight loss. You should check your weight on a regular basis. You will also need to see your healthcare provider regularly to have your weight checked. If you notice that you are losing weight, call your healthcare provider. Your healthcare provider may ask you to stop taking roflumilast tablets if you lose too much weight.

Roflumilast tablets may affect the way other medicines work, and other medicines may affect how roflumilast tablets works. Tell your healthcare provider about all the medicines you take, including prescription and

non-prescription medicines, vitamins, and herbal supplements.

What are roflumilast tablets?

Roflumilast tablets are a prescription medicine used in adults with severe Chronic Obstructive Pulmonary Disease (COPD) to decrease the number of flare-ups or the worsening of COPD symptoms (exacerbations).

Roflumilast tablets are not a bronchodilator and should not be used for treating sudden breathing problems. Your healthcare provider may give you other medicine to use for sudden breathing problems.

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

Who should not take roflumilast tablets?

Do not take roflumilast tablets if you:

- have certain liver problems. Talk with your healthcare provider before you take roflumilast tablets if you have liver problems.

What should I tell my healthcare provider before taking roflumilast tablets?

Before you take roflumilast tablets, tell your healthcare provider if you:

- have or have had a history of mental health problems including depression and suicidal behavior.
- have liver problems
- have any other medical conditions
- are pregnant or plan to become pregnant. It is not known if roflumilast tablets will harm your unborn baby. Talk to your healthcare provider if you are pregnant or plan to become pregnant.
- are breastfeeding or plan to breastfeed. It is not known if roflumilast passes into your breast milk. You and your healthcare provider should decide if you will take roflumilast tablets or breastfeed. You should not do both.

How should I take roflumilast tablets?

- Take roflumilast tablets exactly as your healthcare provider tells you to take it.
- Roflumilast tablets can be taken with or without food.
- If you take more than your prescribed dose of roflumilast tablets, call your healthcare provider or go to the nearest hospital emergency room right away.

What are the possible side effects of roflumilast tablets?

Roflumilast tablets can cause serious side effects, including:

See “**What is the most important information I should know about roflumilast tablets?**”

The most common side effects of roflumilast tablets include:

- diarrhea
- weight loss
- nausea
- headache
- back pain
- flu like symptoms
- problems sleeping (insomnia)
- dizziness
- decreased appetite

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

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

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

How do I store roflumilast tablets?

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

Keep roflumilast tablets and all medicines out of the reach of children.

General information about roflumilast tablets

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use

roflumilast tablets for a condition for which it was not prescribed. Do not give roflumilast tablets to other people, even if they have the same symptoms that you have. It may harm them.

This Medication Guide summarizes the most important information about roflumilast tablets. For more information about roflumilast tablets, talk with your healthcare provider. You can ask your healthcare provider or pharmacist for information about roflumilast tablets that is written for health professionals.

For more information about roflumilast tablets call 1-800-912-9561.

What are the ingredients in roflumilast tablets?

Active ingredient: roflumilast, USP

Inactive ingredients: carboxymethyl cellulose calcium, lactose monohydrate, magnesium stearate, maize starch and polyvinyl alcohol.

This Medication Guide has been approved by the U.S. Food and Drug Administration.

TORRENT[®]
PHARMA

Manufactured by:

Torrent Pharmaceuticals LTD., India.

Manufactured for:

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