



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

Table with 2 columns: Description (Dosage and Administration, Warnings and Precautions, etc.) and Date (1/2018, 8/2017)

INDICATIONS AND USAGE
Roflumilast tablet 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.

LIMITATIONS OF USE
Roflumilast tablet is not a bronchodilator and is not indicated for the relief of acute bronchospasm.

DOSE AND ADMINISTRATION
The recommended dose for patients with COPD is one 500 mcg tablet per day, with or without food.

DOSE FORMS AND STRENGTHS
Tablets: 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.

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FULL PRESCRIBING INFORMATION

INDICATIONS AND USAGE
Roflumilast tablet is indicated as a treatment to reduce the risk of COPD exacerbations in patients with severe COPD with chronic bronchitis and a history of exacerbations.

LIMITATIONS OF USE
Roflumilast tablet is not a bronchodilator and is not indicated for the relief of acute bronchospasm.

DOSE AND ADMINISTRATION
The recommended dose of roflumilast is one 500 micrograms (mcg) tablet per day, with or without food.

DOSE FORMS AND STRENGTHS
Roflumilast tablet is supplied as white to off-white, round, flat bevel edged tablets, debossed with 'H' on one side and 'Y' on the other side.

CONTRAINDICATIONS
The use of roflumilast tablet is contraindicated in the following condition: Moderate to severe liver impairment (Child-Pugh B or C).

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 Suicidal Ideation
Treatment with roflumilast is associated with an increase in psychiatric adverse reactions.

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 500 mcg once daily compared to 2.1% (89) treated with placebo.

5.4 Drug Interactions
A major step in roflumilast metabolism is the N-oxidation of roflumilast to roflumilast N-oxide by CYP3A4 and CYP1A2.

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

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.

6.2 Postmarketing Experience
The following adverse reactions have been identified from spontaneous reports of roflumilast received worldwide and have not been listed elsewhere.

7 DRUG INTERACTIONS
A major step in roflumilast metabolism is the N-oxidation of roflumilast to roflumilast N-oxide by CYP3A4 and CYP1A2.

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.

7.2 Drugs that Inhibit Cytochrome P450 (CYP) Enzymes
The co-administration of roflumilast (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.

7.3 Oral Contraceptives Containing Gestodene and Ethinyl Estradiol
The co-administration of roflumilast (500 mcg) with oral contraceptives containing gestodene and ethinyl estradiol may increase roflumilast systemic exposure and may result in increased side effects.

8 USE IN SPECIFIC POPULATIONS
8.1 Pregnancy
Risk Summary
There are no randomized clinical studies of roflumilast in pregnant women.

8.2 Lactation
Roflumilast and/or its metabolites are excreted into the milk of lactating rats.

8.3 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.

8.4 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 (6 subjects in each group).

8.5 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.

10 OVERDOSAGE
10.1 Human Experience
No case of overdose has been reported in clinical studies with roflumilast.

11 DESCRIPTION
The active ingredient in roflumilast tablets is roflumilast. Roflumilast and its active metabolite (roflumilast N-oxide) are selective phosphodiesterase 4 (PDE4) inhibitors.

12 CLINICAL PHARMACOLOGY
12.1 Mechanism of Action
Roflumilast and its active metabolite (roflumilast N-oxide) are selective inhibitors of phosphodiesterase 4 (PDE4).

12.2 Pharmacodynamics
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.

12.3 Pharmacokinetics
Absorption
The absolute bioavailability of roflumilast following a 500 mcg oral dose is approximately 80%.

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.

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.

2. Weight loss. Roflumilast tablets can cause weight loss. You should check your weight on a regular basis.

Other symptoms include thoughts of suicide or dying, attempt to commit suicide, trouble sleeping (insomnia), new or worse anxiety, new or worse depression, acting on dangerous impulses, and other unusual changes in your behavior or mood.

Who should not take roflumilast tablets?
Do not take roflumilast tablet if you: have certain liver problems, Take 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, are breastfeeding or plan to breastfeed.

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 500 mcg tablets at 20° to 25°C (68° to 77°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.

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 1-866-495-1995.
What are the ingredients in roflumilast tablets?
The active ingredient in roflumilast tablets is roflumilast. Roflumilast and its active metabolite (roflumilast N-oxide) are selective phosphodiesterase 4 (PDE4) inhibitors.

Dimensions: 280 x 550 mm
Book Fold: 32x32 mm
Colours: Single Colour



