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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Rolipram

Autophagy inhibitor
Catalog No. SIH-401



Discovery through partnership | Excellence through quality

Overview

Product Name

Rolipram

Description

Autophagy inhibitor

Purity

>98% (TLC); NMR (Conforms)

CAS No.

61413-54-5

Molecular Formula

C₁₁H₁₁NO₂

Molecular Weight

275.35

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Inhibitor

Solubility

Soluble to 75 mM in DMSO and to 75 mM in ethanol.

Source

Synthetic

Appearance

White to off-white solid.

SMILES

C1=C(C(=CC=C1C2CNC(C2)=O)OC)OC3CCCC3

InChI

InChI=1S/C16H21NO3/c1-19-14-7-6-11(12-9-16(18)17-10-12)8-15(14)20-13-4-2-3-5-13/h6-8,12-13H,2-5,9-10H2,1H3,(H,17,18)

InChIKey

HJORMJIFDVBMOB-UHFFFAOYSA-N

Safety Phrases

Classification: D2B- Toxic Material Causing Other Toxic Effects, Moderate skin irritant, Moderate respiratory irritant, Moderate eye irritant

Safety Phrases:

S22 - Do not breathe dust.

S24/25 - Avoid contact with skin and eyes.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

Hazard statements:

H315- Causes skin irritation.

H319- Causes serious eye irritation.

H335- May cause respiratory irritation.

Precautionary statements:

P261- Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264- Wash skin thoroughly after handling.

P271- Use only outdoors or in a well-ventilated area.

P280- Wear protective gloves/ eye protection/ face protection.

P302 + P352- IF ON SKIN: Wash with plenty of soap and water.

P304 + P340- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312- Call a POISON CENTER or doctor/ physician if you feel unwell.

P321- Specific treatment (see supplemental first aid instructions on this label).

P332 + P313- If skin irritation occurs: Get medical advice/ attention.

P337 + P313- If eye irritation persists: Get medical advice/ attention.

P362- Take off contaminated clothing and wash before reuse.

P403 + P233- Store in a well-ventilated place. Keep container tightly closed.

P405- Store locked up.

P501- Dispose of contents/ container to an approved waste disposal plant.

Cite This Product

Rolipram (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-401)

Biological Description

Alternative Names

4-(3-(Cyclopentyloxy)-4-methoxyphenyl)pyrrolidin-2-one

Research Areas

Cancer, Autophagy

PubChem ID

5092

Scientific Background

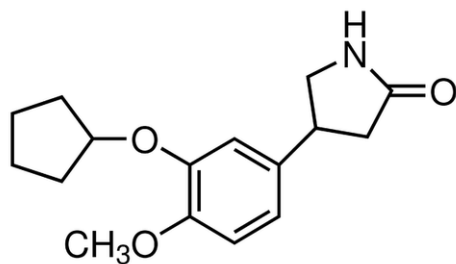
Rolipram has been observed to selectively inhibit cAMP-phosphodiesterase (PDE4) by recruiting PDE4 into cytosolic aggregates that are not membrane-encapsulated. A down-stream effect of this observation is the inhibition of autophagy. Under normal conditions, autophagosomes are coated with the autophagic marker light chain 3 (LC3). LC3 binds directly to p62 protein, which shuttles protein to aggresomes, eventually leading to an autophagic event. In the absence of LC3, protein aggregates will not undergo autophagy, and will remain as cytosolic aggregates, as seen with the inhibition of PDE4 by Rolipram.

References

1. Kato H., et al. (1995) Eur J Pharmacol. 272(1): 107-10.
2. Christian F., et al. (2010) Cell Signal. 22(10): 1576-96.

Product Images

Chemical structure of Rolipram (SIH-401), a Autophagy inhibitor. CAS #: 61413-54-5 .
Molecular Formula: C₁₆H₂₁NO₃. Molecular Weight: 275.35 g/mol.



Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.