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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Rapamycin

mTOR inhibitor
Catalog No. SIH-212



Discovery through partnership | Excellence through quality

Overview

Product Name

Rapamycin

Description

mTOR inhibitor

Purity

>98%

CAS No.

53123-88-9

Molecular Formula

C₁₁H₁₁NO₁₁

Molecular Weight

914.18

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Inhibitor

Solubility

Soluble to 100 mM in ethanol, and to 50 mM in DMSO

Source

Synthetic

Appearance

White Solid

SMILES

C[C@@H]1CC[C@H]2C[C@@H](/C=C/C=C/C/[C@H](C[C@H](C=O)[C@@H]([C@@H](/C=C/[C@H](C=O)C[C@H](OC(=O)[C@@H]3CCCCN3C(=O)C(=O)[C@@]1(O2)O)[C@H](C)C[C@@H]4CC[C@H]([C@@H](C4)OC)O)C/C)O)OC)C/C)OC

InChI

InChI=1S/C51H79NO13/c1-30-16-12-11-13-17-31(2)42(61-8)28-38-21-19-36(7)51(60,65-38)48(57)49(58)52-23-15-14-18-39(52)50(59)64-43(33(4)26-37-20-22-40(53)44(27-37)62-9)29-41(54)32(3)25-35(6)46(56)47(63-

InChIKey

QFJCIRLUMZQUOT-HPLJOQBZSA-N

Safety Phrases

Classification: Harmful. May be harmful if inhaled, swallowed or absorbed through skin.

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

Risk Phrases:

R68- Possible risk of irreversible effect

Cite This Product

Rapamycin (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-212)

Biological Description

Alternative Names

(1R,9S,12S,15R,16E,18R,19R,21R,23S,24E,26E,28E,30S,32S,35R)-1,18-Dihydroxy-12-{1-[(1S,3R,4R)-4-hydroxy-3-methoxycyclohexyl]-2-propanyl}-19,30-dimethoxy-15,17,21,23,29,35-hexamethyl-11,36-dioxo-4-azatricyclo[30.3.1.04,9]hexatriaconta-16,24,26,28-tetraene2,3,10,14,20-pentone

Research Areas

Cancer, Apoptosis, Cancer Growth Inhibitors, mTOR Inhibitors

PubChem ID

5284616

Scientific Background

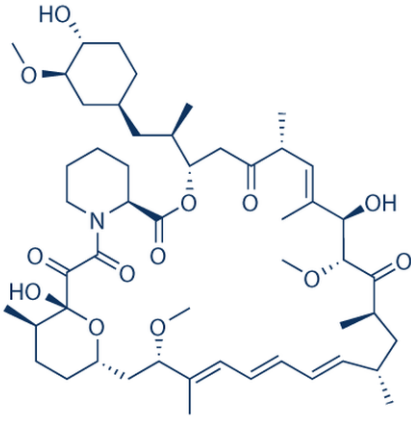
Rapamycin or Sirolimus is an immunosuppressant and antifungal. It inhibits the response to interleukin-2, and therefore blocks activation of T and B cells. It binds FKBP12 which then inhibits the mTOR pathway (1). There is also potential treatment for Alzheimer's, autism and HIV infection (2-3).

References

1. Gruppuso P.A., Boylan J.M., and Sanders J.A. (2011) Cell Cycle. 10(7): EPub.
2. Ehninger D., et al. (2008) Nat. Med. 14(8): 843-848.
3. Donia M., McCubrey J.A., Bendtzen K., and Nicoletti F. (2010) Br J Clin Pharmacol. 70(6): 784-793.

Product Images

Chemical structure of Rapamycin (SIH-212), a mTOR inhibitor. CAS #: 53123-88-9.
Molecular Formula: C₅₁H₇₉NO₁₃ . Molecular Weight: 914.18 g/mol.



Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.