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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Cyclosporine

Immunosuppressant
Catalog No. SIH-201



Discovery through partnership | Excellence through quality

Overview

Product Name

Cyclosporine

Description

Immunosuppressant

Purity

>99%

CAS No.

59865-13-3

Molecular Formula

C₁₁H₁₇N₄O₂

Molecular Weight

1202.63

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Inhibitor

Solubility

Soluble to 100 mM in DMSO, 50 mM in ethanol

Source

Synthetic

Appearance

White Solid

SMILES

CC[C@H]1C(=O)N(CC(=O)N([C@H](C(=O)N[C@H](C(=O)N([C@H](C(=O)N[C@H](C(=O)N[C@@H](C(=O)N([C@H](C(=O)N([C@H](C(=O)N([C@H](C(=O)N1)C[C@@H]([C@H](C)C/C=C/C)O)C)C(C)C)CC(C)C)CC(C)C)C)C)CC(

InChI

InChI=1S/C62H111N11O12/c1-25-27-28-40(15)52(75)51-56(79)65-43(26-2)58(81)67(18)33-48(74)68(19)44(29-34(3)4)55(78)66-49(38(11)12)61(84)69(20)45(

InChIKey

PMATZTZNYRCHOR-IMVLJIQESA-N

Safety Phrases

Classification: Toxic. May be harmful or fatal 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

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

Risk Phrases:

R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed

R45 - May cause cancer

R62 - Possible risk of impaired fertility

R68 - Possible risk of irreversible effects

Hazard Phrases:

H302-H350-H360

Precautionary Phrases:

P201-P308 + P313

Cite This Product

Cyclosporine (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-201)

Biological Description

Alternative Names

(3S,6S,9S,12R,15S,18S,21S,24S,30S,33S)-30-Ethyl-33-[(1R,2R,4E)-1-hydroxy-2-methyl-4-hexen-1-yl]-6,9,18,24-tetraisobutyl-3,21-diisopropyl-1,4,7,10,12,15,19,25,28-nonamethyl-1,4,7,10,13,16,19,22,25,28,3 1-undecaazacyclotritriacontane-2,5,8,11,14,17,20,23,26,29,32-undecone, Cyclosporin A

Research Areas

Cancer, Apoptosis

PubChem ID

5284373

Scientific Background

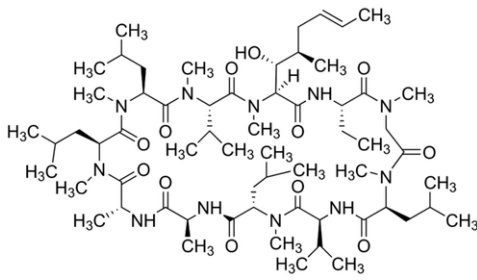
Cyclosporin A is a hydrophobic cyclic peptide, and is a potent immune-suppressant and antifungal. It acts via its ability to bind to a family of intracellular proteins (1). The immunosuppressant action is mediated by the complex Cyclosporin-A-cyclophilin that specifically inhibits the Ca²⁺/calmodulin-dependent serine-threonine-protein phosphatase-2B. This in turn inhibits calcineurin and promotes dephosphorylation of transcription factor NF-AT and T-cell activation (2).

References

1. Heitman J., et al. (1992) New Biol. 4:448.
2. Ganong W.F. Review of Medical Physiology, 22nd edition. Lange Medical Books, Chapter 27, Page 530.

Product Images

Chemical structure of Cyclosporine (SIH-201), a Inhibits mitochondrial permeability pore opening. CAS #: 59865-13-3. Molecular Formula: C₆₂H₁₁₁N₁₁O₁₂ . Molecular Weight: 1202.63 g/mol.



Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.