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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Cytochalasin D

Actin polymerization inhibitor
Catalog No. SIH-241



Discovery through partnership | Excellence through quality

Overview

Product Name

Cytochalasin D

Description

Actin polymerization inhibitor

Purity

>98% (TLC); NMR (Conforms)

CAS No.

22144-77-0

Molecular Formula

C₁₁H₁₁NO₁

Molecular Weight

507.63

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Inhibitor

Solubility

Soluble to 10 mM in ethanol and to 50 mM in DMSO

Source

Synthetic

Appearance

White Solid

SMILES

C[C@H]1C/C=C/[C@H]2[C@@H](C(=C)[C@H]([C@@H]3[C@@]2([C@@H](/C=C/[C@H](C1)C)OC(=O)C(=O)N[C@H]3CC4=CC=CC=C4)C)O

InChI

InChI=1S/C30H37NO6/c1-17-10-9-13-22-26(33)19(3)18(2)25-23(16-21-11-7-6-8-12-21)31-28(35)30(22,25)24(37-20(4)32)14-15-29(5,3

InChIKey

SDZRWUKZFQKKV-BBXOWAOSSA-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

Risk Phrases:

R62 - Possible risk of impaired fertility

R68 - Possible risk of irreversible effects

Hazard Phrases:

H300-H361

Precautionary Phrases:

P264-P281-P301 + P310

Cite This Product

Cytochalasin D (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-241)

Biological Description

Alternative Names

(3S,3aR,4S,6S,6aR,7E,10S,12S,13E,15R,15aR)-3-Benzyl-6-hydroxy-4,10,12-trimethyl-5-methylene-1-oxo-2,3,3a,4,5,6,6a,9,10,11,12,15-dodecahydro-1H-cycloundeca[d]isoindol-15-yl acetate, Zygosporin A

Research Areas

Cancer, Apoptosis

PubChem ID

5458428

Scientific Background

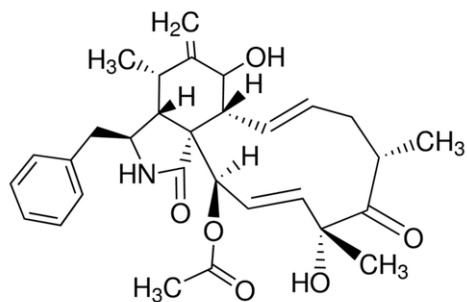
Cytochalasins have the ability to bind to actin filaments and block polymerization and elongation of actin. As a result, they can change cellular morphology, inhibit cellular processes and cause cells to undergo apoptosis (1). Cytochalasin D in particular can inhibit protein synthesis (2).

References

1. Haidle A., and Myers A. (2004) Proc Natl Acad Sci. 101(33): 12048-12053.
 2. Ornelles et al., (1986) Mol Cell Biol. 6(5): 1650-1662.
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Product Images

Chemical structure of Cytochalasin D (SIH-241), a Disrupts actin filaments. CAS #: 22144-77-0. Molecular Formula: C₃₀H₃₇NO₆. Molecular Weight: 507.63 g/mol.



Product Citations (3)

Other Citations

M2BP inhibits HIV-1 virion production in a vimentin filaments-dependent manner.

Wang, Q., Zhang, X., Han, Y., Wang, X. and Gao, G. (2016) Sci Rep. 6:32736.

PubMed ID: 27604950 **Applications:** Cell treatment

Plasma contributes to the antimicrobial activity of whole blood against Mycobacterium tuberculosis.

López-Medrano, R. (2016) Innate Immun. [Epub ahead of print].

PubMed ID: 27554054 **Applications:** In vitro inhibition

Bleb formation is induced by alkaline but not acidic pH in estrogen receptor silenced breast cancer cells.

Khajah, M.A., Mathew, P.M., Alam-Eldin, N.S. and Luqmani, Y.A. (2015) Int J Oncol. 46(4):1685-98.

PubMed ID: 25672508 **Applications:** In vitro inhibition

Reviews

There are no reviews yet.