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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Epothilone B

Microtubule stabilizer
Catalog No. SIH-238



Discovery through partnership | Excellence through quality

Overview

Product Name

Epothilone B

Description

Microtubule stabilizer

Purity

>98%

CAS No.

152044-54-7

Molecular Formula

C₁₁H₁₁NO₅

Molecular Weight

507.68

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Inducer

Solubility

Soluble to 10 mM in DMSO

Source

Synthetic

Appearance

White Solid

SMILES

C[C@H]1CCC[C@@]2([C@@H](O2)C[C@H](OC(=O)C[C@@H](C(C(=O)[C@@H]([C@H]1O)C)(C)O)/C=C/C3=CSC(=N3)C)/C

InChI

InChI=1S/C27H41NO6S/c1-15-9-8-10-27(7)22(34-27)12-20(16(2)11-19-14-35-18(4)28-19)33-23(30)13-21(29)26(5,6)25(32)17(3)24(15)

InChIKey

QXRSDHAAWVKZLJ-PVYNADRNSA-N

Safety Phrases

Classification: Caution: Substance not yet fully tested.

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

Cite This Product

Epothilone B (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-238)

Biological Description

Alternative Names

(1S,3S,7S,10R,11S,12S,16R)-7,11-Dihydroxy-8,8,10,12,16-pentamethyl-3-[(1E)-1-(2-methyl-1,3-thiazol-4-yl)-1-propen-2-yl]-4,17-dioxabicyclo[14.1.0]heptadecane-5,9-dione, Patupilone

Research Areas

Cancer, Apoptosis

PubChem ID

448013

Scientific Background

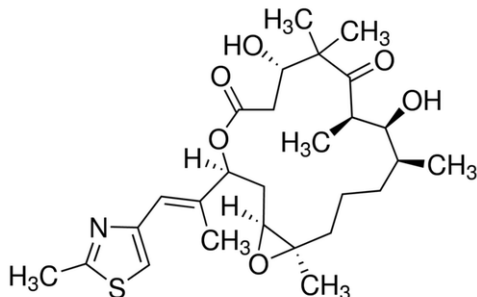
Epothilone are a new class of cancer drugs. They prevent cancer cells from dividing by interfering with tubulin (1). Epothilone B possess the same biological effects as paclitaxel in both invitro and cultured cells, because they share the same binding site (2). Epothilone has also been shown to induce tubulin polymerization into microtubules without the presence of GTP. And it also causes cell cycle arrest at the G2-M transition phase, leading to eventual cell apoptosis (3).

References

1. Rosenberg S., Devita V.T., Hellman S. (2005) Cancer: Principles & Practice of Oncology: Lippincott Williams and Wilkins.
2. Julien B., Shah S. (2002) Antimicrob Agents Chemother. 46(9): 2772.
3. Balog D.M., et al. (1996) Angew Chem. 108: 2976.

Product Images

Chemical structure of Epothilone B (SIH-238), a Microtubule stabilizing agent. CAS #: 152044-54-7. Molecular Formula: C₂₇H₄₁NO₆S. Molecular Weight: 507.68 g/mol.



Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.