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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Docetaxel

Microtubule stabilizer
Catalog No. SIH-240



Discovery through partnership | Excellence through quality

Overview

Product Name

Docetaxel

Description

Microtubule stabilizer

Purity

>98%

CAS No.

114977-28-5

Molecular Formula

C₂₅H₃₂N₂O₁₁

Molecular Weight

807.88

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Inducer

Solubility

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

Source

Synthetic

Appearance

White solid

SMILES

CC1=C2[C@@H](C(=O)[C@@]3([C@H](C[C@@H]4[C@]([C@H]3[C@@H]([C@@](C2(C)C)(C[C@@H]1OC(=O)[C@@H]([C@H](C5=CC=CC5)NC(=O)OC(C)(C)O)O)OC(=O)C6=CC=CC=C6)(CO4)OC(=O)C)O)C)O

InChI

InChI=1S/C43H53NO14/c1-22-26(55-37(51)32(48)30(24-15-11-9-12-16-24)44-38(52)58-39(3,4)5)20-43(53)35(56-36(50)25-17-13-10-14-18-25)33-41(8,34(49)31(47)

InChIKey

ZDZOTLJHXWCWBA-VCVYQWSSA-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

Docetaxel (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-240)

Biological Description

Alternative Names

(2?,5?,7?,10?,13?)-4-Acetoxy-1,7,10-trihydroxy-13-[[[(2R,3S)-2-hydroxy-3-[[[2-methyl-2-propanyl]oxy]carbonyl]amino)-3-phenylpropanoyl]oxy]-9-oxo-5,20-epoxytax-11-en-2-yl benzoate

Research Areas

Cancer, Apoptosis

PubChem ID

148124

Scientific Background

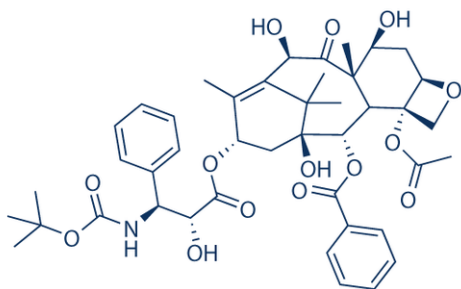
Docetaxel is a semi-synthetic analogue of paclitaxel differing at two positions in its chemical structure (1). It also binds and stabilizes microtubules which leads to cell cycle arrest and apoptosis (2).

References

1. Clarke S.J., and Rivory L.P. (1999) Clin Pharmacokinet. 36(2): 99-114.
2. Woodward E.J. and Twelves C. (2010) Curr. Clin Pharmacol. 5(3): 226-231.

Product Images

Chemical structure of Docetaxel (SIH-240), a Microtubule stabilizing agent. CAS #: 114977-28-5. Molecular Formula: C₄₃H₅₃NO₁₄. Molecular Weight: 807.88 g/mol.



Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.