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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Irinotecan HCl

Topoisomerase I inhibitor
Catalog No. SIH-243



Discovery through partnership | Excellence through quality

Overview

Product Name

Irinotecan HCl

Description

Topoisomerase I inhibitor

Purity

>98%

CAS No.

100286-90-6

Molecular Formula

C₁₁H₁₁N₁O₁HCl

Molecular Weight

623.14

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Inducer

Solubility

Soluble to 50 mg/ml in DMSO

Source

Synthetic

Appearance

Yellow solid

SMILES

CCC1=C2CN3C(=CC4=C(C3=O)COC(=O)[C@@]4(CC)O)C2=NC5=C1C=C(C=C5)OC(=O)N6CCC(CC6)N7CCCCC7

InChI

InChI=1S/C33H38N4O6/c1-3-22-23-16-21(43-32(40)36-14-10-20(11-15-36)35-12-6-5-7-13-35)8-9-27(23)34-29-24(22)18-37-28(29)1

InChIKey

UWKQSNFCCGAFS-XIFFEERXSA-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

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

R62 - Possible risk of impaired fertility

R68 - Possible risk of irreversible effects

Hazard Phrases:

H302

Cite This Product

Irinotecan HCl (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-243)

Biological Description

Alternative Names

(4S)-4,11-Diethyl-4-hydroxy-3,14-dioxo-3,4,12,14-tetrahydro-1H-pyrano[3',4':6,7]indolizino[1,2-b]quinolin-9-yl 1,4'-bipiperidine-1'-carboxylate, CPT11, Camptothecin 11

Research Areas

Cancer, Apoptosis

PubChem ID

74990

Scientific Background

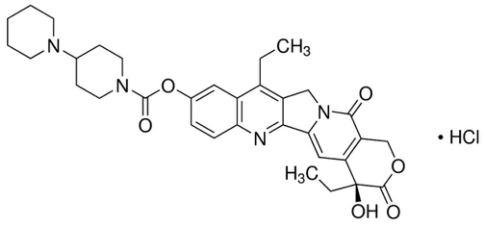
Irinotecan is a topoisomerase 1 inhibitor, which prevents DNA from unwinding. Chemically it is a semisynthetic analogue of the natural alkaloid camptothecin. It is activated by hydrolysis to SN-38 which is then inactivated by glucuronidation by UGT1A1. This inactivation eventually leads to inhibition of both DNA replication and transcription (1, 2).

References

1. Innocenti F., et al. (2004) J Clin. Oncol. 22(8): 1382-1388.
 2. ODwyer P.J., and Catalano R.B. (2006) J Clin Oncol. 24(28): 4534-4538.
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Product Images

Chemical structure of Irinotecan HCl (SIH-243), a Topoisomerase I inhibitor. CAS #: 100286-90-6. Molecular Formula: C₃₃H₃₈N₄O₆.HCl. Molecular Weight: 623.14 g/mol.



Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.