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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Amifostine

HIF-1 α activator
Catalog No. SIH-210



Discovery through partnership | Excellence through quality

Overview

Product Name

Amifostine

Description

HIF-1 α activator

Purity

>98%

CAS No.

20537-88-6

Molecular Formula

CH₁₁N₁O₃PS

Molecular Weight

214.22

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Activator

Solubility

Soluble in water

Source

Synthetic

Appearance

White Solid

SMILES

C(CN)CNCCSP(=O)(O)O

InChI

InChI=1S/C5H15N2O3PS/c6-2-1-3-7-4-5-12-11(8,9)10/h7H,1-6H2,(H2,8,9,10)

InChIKey

JKOQGQFVAUAYPM-UHFFFAOYSA-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

Hazard Phrases:

H302

Cite This Product

Amifostine (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-210)

Biological Description

Alternative Names

S-{2-[(3-Aminopropyl)amino]ethyl} dihydrogen phosphorothioate

Research Areas

Cancer, Apoptosis

PubChem ID

2141

Scientific Background

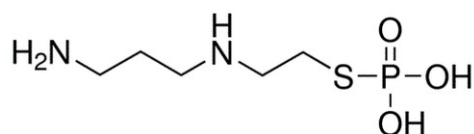
Amifostine is a cytoprotective adjuvant used in cancer chemotherapy and radiotherapy. Inside cells it detoxifies reactive metabolites of platinum and alkylating agents (1, 2). Other effects include accelerated DNA repair (1), induction of cellular hypoxia (1), inhibition of apoptosis (2), alteration of gene expression (2) and modification of enzyme activity (2).

References

1. Kouvaris J.R., Kouloulis V.E., Blahos L.J. (2007) *Oncologist*. 12(6): 738-747.
 2. Amifostine: BC Cancer Agency. 2006-03-01.
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Product Images

Chemical structure of Amifostine (SIH-210), a Cellular protectant. CAS #: 20537-88-6.
Molecular Formula: C₅H₁₅N₂O₃PS. Molecular Weight: 214.22 g/mol.



Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.