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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Mitomycin C

DNA synthesis inhibitor
Catalog No. SIH-246



Discovery through partnership | Excellence through quality

Overview

Product Name

Mitomycin C

Description

DNA synthesis inhibitor

Purity

>98%

CAS No.

50-07-7

Molecular Formula

C₁₁H₁₁N₁O₁

Molecular Weight

334.33

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Inhibitor

Solubility

Soluble to 100 mM in DMSO, 5 mM water, and to 5 mM Ethanol

Source

Synthetic

Appearance

Dark Purple Crystalline Solid

SMILES

CC1=C(C(=O)C2=C(C1=O)N3C[C@H]4[C@@H]([C@@]3([C@@H]2COC(=O)N)OC)N4)N

InChI

InChI=1S/C15H18N4O5/c1-5-9(16)12(21)8-6(4-24-14(17)22)15(23-2)13-7(18-13)3-19(15)10(8)11(5)20/h6-7,13,18H,3-4,16H2,1-2H3,(H

InChIKey

NWIBSHFKIJFRCO-WUDYKRTCSEA-N

Safety Phrases

Classification: Very toxic. May be 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

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

Risk Phrases:

R26/27/28 - Very Toxic by inhalation, in contact with skin and if swallowed

R46 - May cause heritable genetic damage

R61 - May cause harm to the unborn child

R62 - Possible risk of impaired fertility

Hazard Phrases:

H302-H351

Precautionary Phrases:

P281

Cite This Product

Mitomycin C (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-246)

Biological Description

Alternative Names

[(1aS,8S,8aR,8bS)-6-Amino-8a-methoxy-5-methyl-4,7-dioxo-1,1a,2,4,7,8,8a,8b-octahydroazireno[2',3':3,4]pyrrolo[1,2-a]indol-8-yl]methyl carbamate, Ametycine

Research Areas

Cancer, Apoptosis

PubChem ID

5746

Scientific Background

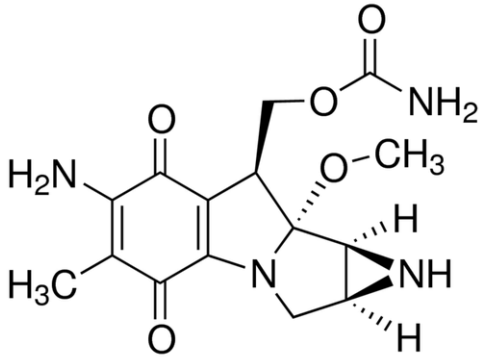
The mitomycins are a family of aziridine containing natural products. Mitomycin C is a chemotherapeutic agent because of its mechanism of potent DNA crosslinker, reductive activation followed by two N-alkylations. Both alkylations are sequence specific for a guanine nucleoside in the sequence 5-CpG-3 (1).

References

1. Tomasz M. (1995). Chem and Biol. 2(9): 575-579.

Product Images

Chemical structure of Mitomycin C (SIH-246), a DNA crosslinking and damaging agent. CAS #: 50-07-7. Molecular Formula: C₁₅H₁₈N₄O₅. Molecular Weight: 334.33 g/mol.



Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.