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Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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5-Azacytidine

DNA hypomethylation agent
Catalog No. SIH-345



Discovery through partnership | Excellence through quality

Overview

Product Name

5-Azacytidine

Description

DNA hypomethylation agent

Purity

>98% (TLC); NMR (Conforms)

CAS No.

320-67-2

Molecular Formula

CH₁₁N₁₀O₁

Molecular Weight

244.2

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Inhibitor

Solubility

Soluble in 25 mg/ml DMSO or 12 mg/ml Water

Source

Synthetic

Appearance

White Solid

SMILES

C1=NC(=NC(=O)N1[C@H]2[C@@H]([C@@H]([C@H](O2)CO)O)O)N

InChI

InChI=1S/C8H12N4O5/c9-7-10-2-12(8(16)11-7)6-5(15)4(14)3(1-13)17-6/h2-6,13-15H,1H2,(H2,9,11,16)/t3-,4-,5-,6-/m1/s1

InChIKey

NMUSYJAQQFHJEW-KVTDHHQDSA-N

Safety Phrases

Classification: Harmful- May be harmful if inhaled, swallowed, or absorbed through skin.

Safety Phrases:

S22 - Do not breathe dust

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

S24/25- Avoid contact with skin and eyes

Hazard Statements:

H302- Harmful if swallowed

H350 May cause cancer

Precautionary Statements:

P201 Obtain special instructions before use.

P308 + P313 If exposed or concerned: Get medical advice/attention

Cite This Product

5-Azacytidine (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-345)

Biological Description

Alternative Names

4-Amino-1-β-D-ribofuranosyl-1,3,5-triazin-2(1H)-one; Ladakamycin; U-18496; NSC-102816; 5-AzaC

Research Areas

Cancer, Cell Signaling, Epigenetics

PubChem ID

9444

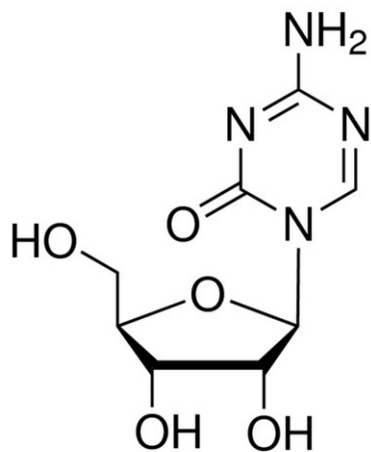
Scientific Background

DNA methyltransferase inhibitor. Incorporates into DNA forming covalent adducts with cellular DNMT1, depleting enzyme activity. Induces demethylation and reactivation of silenced genes. Improves the efficiency of reprogramming of stem cells; induces differentiation of mesenchymal stem cells into cardiomyocytes.

References

1. Schneider-Stock R., et al. (2005) J Pharmacol Exp Ther. 312(2): 525-536.
 2. Mikkelsen T.S., et al., (2008) Nature. 454(7200): 49-55.
 3. Qian Q., et al., (2012) Stem Cells Dev. 21(1): 67-75.
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Product Images



Chemical structure of 5-Azacytidine (SIH-345), a DNA hypomethylation agent. CAS #: 320-67-2. Molecular Formula: C₈H₁₂N₄O₅. Molecular Weight: 244.2 g/mol.

Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.