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Datasheet for ABIN7233228

5-Azacytidine

1 Image

Overview

Quantity: 50 mg

Application: Inhibition (Inh)

Product Details

Purpose: DNA hypomethylation agent

Characteristics: Specific inhibitor of DNA methyltransferase. Incorporates into DNA and covalently reacts with and inhibits DNA methyltransferases. Induces demethylation and reactivation of silenced genes. Increases stem cell reprogramming efficiency. Induces cardiac differentiation of human mesenchymal stem cells by activating ERK. Induces apoptosis in multiple myeloma cells via ATR-mediated DNA double strand breaks. Cell permeable.

Purity: >98 %

Chemical Name: 4-Amino-1-β-D-ribofuranosyl-1,3,5-triazin-2(1H)-one

Formula: C₈H₁₂N₄O₅

Permeability: Cell-permeable

Solubility: Soluble in DMSO (up to 25 mg/ml), or in Water (up to 12 mg/ml).

Target Details

Background: Ladakamycin, U-18496, NSC-102816, AzaC, Epigenetics, Chromatin, DNA methyltransferase, Stem cells, Cell death, Infectious disease, Apoptosis inducer, DNA damage

Molecular Weight: 244.2

CAS-No: 320-67-2

Application Details

Restrictions: For Research Use only

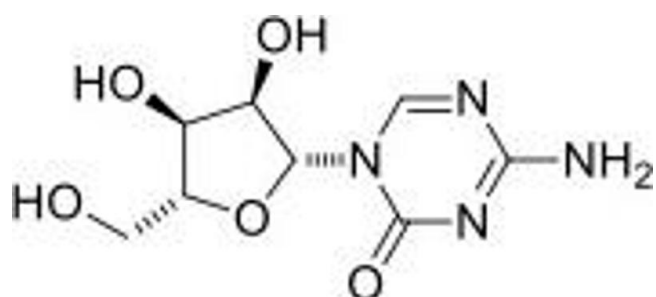
Handling

Format: Powder

Precaution of Use: GHS – Classification
Acute toxicity, Oral (Category 4), H302
Germ cell mutagenicity (Category 2), H341
Carcinogenicity (Category 1A), H350
Reproductive toxicity (Category 1B), H360
Specific target organ toxicity - repeated exposure (Category 1), H372
Long-term (chronic) aquatic hazard (Category 1), H410

Storage: -20 °C

Images



Molecule

Image 1. /