

5-Azacytidine

Catalog No: tcsc1287



Available Sizes

Size: 100mg

Size: 200mg

Size: 500mg

Size: 1g

Size: 2g

Size: 5g

Size: 10g



Specifications

CAS No:

320-67-2

Formula:

$C_8H_{12}N_4O_5$

Pathway:

Cell Cycle/DNA Damage;Autophagy;Epigenetics

Target:

Nucleoside Antimetabolite/Analog;Autophagy;DNA Methyltransferase

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 31 mg/mL (126.95 mM)

Alternative Names:

Ladakamycin;5-AzaC;Azacitidine

Observed Molecular Weight:

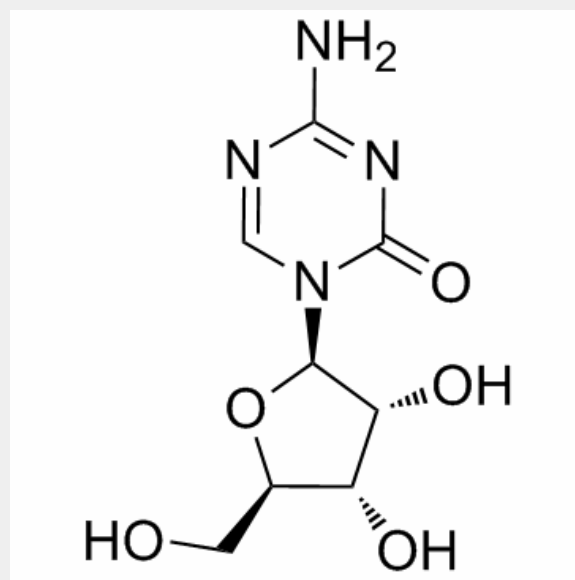
244.2

Product Description

5-Azacytidine is a nucleoside analogue of cytidine that specifically inhibits DNA methylation by trapping **DNA methyltransferases**.

In Vitro: Unmethylated CpG islands associated with a variety of genes become partially or fully methylated in tumors and can be reactivated by 5-Azacytidine^[1]. 5-Azacytidine acts as weak inducers of erythroid differentiation of Friend erythroleukemia cells in the same concentration range where they affect DNA methyltransferase activity^[2]. 5-Azacytidine inhibits L1210 cells with ID₅₀ and ID₉₀ values of 0.019 and circa 0.15 µg/mL, respectively^[3].

In Vivo: TdR-³H incorporation is significantly inhibited when the animals are exposed to 5-Azacitidine (100 mg/kg, i.p.) for 2 hr or longer^[3].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!