Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Decitabine

Catalog No: tcsc0372

Available Sizes

Size: 50mg

Size: 100mg

Size: 200mg

Size: 500mg

Size: 1g

Size: 2g

Size: 5g

Specifications

CAS No:
2353-33-5

Formula:
$C_8H_{12}N_4O_4$

Pathway:
Epigenetics

Target:
DNA Methyltransferase

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 50 mg/mL (219.10 mM)

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Alternative Names:
NSC 127716;5-Aza-2'-deoxycytidine

Observed Molecular Weight:
228.21

Product Description

Decitabine (NSC 127716) is a **DNA methyltransferase** inhibitor commonly used to treat myelodysplastic syndromes (MDS) and acute myeloid leukemia (AML).

In Vitro: Decitabine treatment significantly inhibits cell growth of SNU719, NCC24 and KATOIII 96 hours after exposure to decitabine. Decitabine induces G2/M arrest and apoptosis in EBVaGC, inhibits invasion ability, and up-regulates E-cadherin expression for EBVaGC[1]. Tri-acetylation on the H4 N-terminal tail (H4K8acK12acK16ac) is reduced after DAC treatment in MDS-L sensitive cells[2]. Decitabine up-regulates DCTPP1 and dUTPase expression in HeLa cells[3].

In Vivo: Decitabine (1.0 mg/kg, p.o.) in combination with tetrahydrouridine (THU) causes severe toxicity occurs in females, and results in an increased sensitivity to decitabine toxicity correlating with decitabine plasma levels[4].