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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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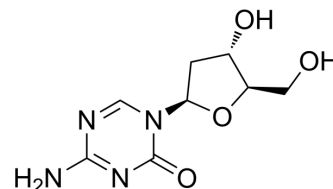
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Decitabine (Standard)

Cat. No.:	HY-A0004R
CAS No.:	2353-33-5
Molecular Formula:	C ₈ H ₁₂ N ₄ O ₄
Molecular Weight:	228.21
Target:	DNA Methyltransferase; Apoptosis; Nucleoside Antimetabolite/Analog
Pathway:	Epigenetics; Apoptosis; Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 50 mg/mL (219.10 mM)
 H₂O : 20 mg/mL (87.64 mM; Need ultrasonic)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
	1 mM		4.3819 mL	21.9096 mL	43.8193 mL
	5 mM		0.8764 mL	4.3819 mL	8.7639 mL
	10 mM		0.4382 mL	2.1910 mL	4.3819 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Decitabine (Standard) is the analytical standard of Decitabine. This product is intended for research and analytical applications. Decitabine (NSC 127716) is an orally active deoxycytidine analogue antimetabolite and a DNA methyltransferase inhibitor. Decitabine incorporates into DNA in place of cytosine can covalently trap DNA methyltransferase to DNA causing irreversible inhibition of the enzyme. Decitabine induces cell G2/M arrest and cell apoptosis. Decitabine has potent anticancer activity^{[1][2]}.

REFERENCES

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- [2]. Hagemann S, et al. Azacytidine and decitabine induce gene-specific and non-random DNA demethylation in human cancer cell lines. *PLoS One.* 2011 Mar 7;6(3):e17388.
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- [7]. Parker WB. Enzymology of purine and pyrimidine antimetabolites used in the treatment of cancer. *Chem Rev*. 2009 Jul;109(7):2880-93.
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Caution: Product has not been fully validated for medical applications. For research use only.

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