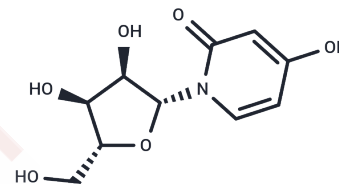


3-Deazauridine

Chemical Properties

CAS No. :	23205-42-7
Formula:	C ₁₀ H ₁₃ N ₃ O ₆
Molecular Weight:	243.21
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	3-Deazauridine (NSC-126849) is a structural analog of uridine that inhibits the biosynthesis of Cytidine-5'-Triphosphate by competitive inhibition of Cytidine Triphosphate synthetase which is considered to be the primary mode of action of this nucleoside analog.
Targets(IC50)	Nucleoside Antimetabolite/Analog,DNA/RNA Synthesis
In vitro	3-Deazauridine enhanced the in vitro antineoplastic action of 5-AZA-CdR on human leukemic cells by increasing its incorporation into DNA. Using an optimized dose-schedule we showed that this combination could cure some mice bearing L1210 leukemia, even in the presence of a subpopulation of drug-resistant (L1210/ARA-C) leukemic cells lacking DCK. 3-Deazauridine alone also cured some mice with L1210/ARA-C leukemia[1].

Solubility Information

Solubility	DMSO: 45 mg/mL (185.03 mM),Sonication is recommended. DMF: 16 mg/mL (65.79 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (8.22 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.1117 mL	20.5584 mL	41.1167 mL
5 mM	0.8223 mL	4.1117 mL	8.2233 mL
10 mM	0.4112 mL	2.0558 mL	4.1117 mL
50 mM	0.0822 mL	0.4112 mL	0.8223 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Raynal NJ, et al. 3-Deazauridine enhances the antileukemic action of 5-aza-2'-deoxycytidine and targets drug-resistance due to deficiency in deoxycytidine kinase. *Leuk Res.* 2011 Jan;35(1):110-8.
- Moriconi WJ, Slavik M, Taylor S. 3-Deazauridine (NSC 126849): an interesting modulator of biochemical response. *Invest New Drugs.* 1986;4(1):67-84.
- Grant S, Cadman E. Altered 5-azacytidine metabolism following 3-deazauridine treatment of L5178Y and human myeloblasts. *Cancer Res.* 1980 Nov;40(11):4000-6.

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