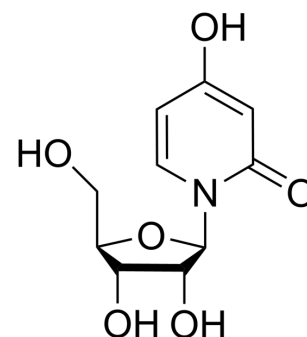


3-Deazauridine

Cat. No.:	HY-105336
CAS No.:	23205-42-7
Molecular Formula:	C ₁₀ H ₁₃ NO ₆
Molecular Weight:	243.21
Target:	DNA/RNA Synthesis; Nucleoside Antimetabolite/Analog
Pathway:	Cell Cycle/DNA Damage
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (411.17 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		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		
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2 mg/mL (8.22 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2 mg/mL (8.22 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	3-Deazauridine (NSC 126849) is a uridine analogue. 3-Deazauridine competitively inhibits cytidine triphosphate synthase to inhibit the biosynthesis of cytidine-5'-triphosphate. 3-Deazauridine acts synergistically with several antineoplastic agents, acting as a biological response modifier ^[1] .
IC₅₀ & Target	Cytidine triphosphate synthase ^[1]
In Vitro	3-Deazauridine (DAUR) exhibits superior antitumor activity against L1210 leukemia cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	3-Deazauridine (DAUR) (250 mg/kg/day; i.p; 1-9 days) shows moderate activity against L1210 leukemia cells in mice ^[1] . 3-Deazauridine (ip; 5 times doses) has the lethal dose of 250 mg/kg/day and 417 mg/kg/day, the toxic dose low of 62.5

mg/kg/day and 104 mg/kg/day, the highest non-toxic dose of 31.25 mg/kg/day and 52 mg/kg/day, in beagle dogs and rhesus monkeys, respectively^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Moriconi WJ, et al. 3-Deazauridine (NSC 126849): an interesting modulator of biochemical response. Invest New Drugs. 1986;4(1):67-84.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA