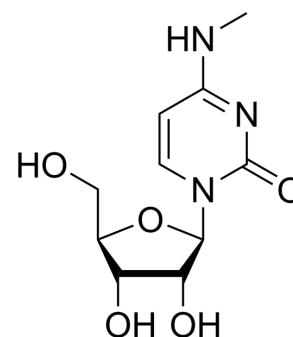


N4-Methylcytidine

Cat. No.:	HY-W130466
CAS No.:	10578-79-7
Molecular Formula:	C ₁₀ H ₁₅ N ₃ O ₅
Molecular Weight:	257.24
Target:	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 : 50 mg/mL (194.37 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		3.8874 mL	19.4371 mL	38.8742 mL
		5 mM		0.7775 mL	3.8874 mL	7.7748 mL
	10 mM		0.3887 mL	1.9437 mL	3.8874 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (9.72 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (9.72 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (9.72 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	N4-Methylcytidine (Nsc518744) is a cytidine nucleoside analog. Cytidine analogs have a mechanism of inhibiting DNA methyltransferases (such as Zebularine, HY-13420), and have potential anti-metabolic and anti-tumor activities ^[1] .
--------------------	--

REFERENCES

[1]. Gowher H, et al. Mechanism of inhibition of DNA methyltransferases by cytidine analogs in cancer therapy. Cancer Biol Ther. 2004 Nov;3(11):1062-8.

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