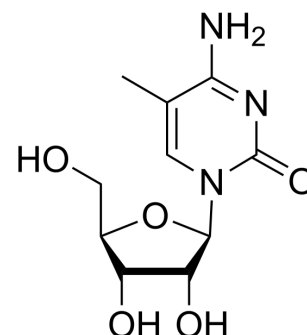


5-Methylcytidine

Cat. No.:	HY-113135
CAS No.:	2140-61-6
Molecular Formula:	C ₁₀ H ₁₅ N ₃ O ₅
Molecular Weight:	257.24
Target:	Endogenous Metabolite; Nucleoside Antimetabolite/Analog
Pathway:	Metabolic Enzyme/Protease; Cell Cycle/DNA Damage
Storage:	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (194.37 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		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	1. 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				
	2. 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				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (9.72 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	5-Methylcytidine is a pyrimidine nucleoside detected in multiple biofluids.
IC₅₀ & Target	Human Endogenous Metabolite

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

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