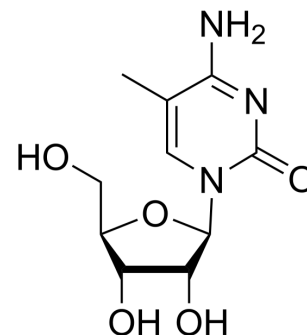


## 5-Methylcytidine

<b>Cat. No.:</b>	HY-113135
<b>CAS No.:</b>	2140-61-6
<b>Molecular Formula:</b>	C <sub>10</sub> H <sub>15</sub> N <sub>3</sub> O <sub>5</sub>
<b>Molecular Weight:</b>	257.24
<b>Target:</b>	Endogenous Metabolite; Nucleoside Antimetabolite/Analog
<b>Pathway:</b>	Metabolic Enzyme/Protease; Cell Cycle/DNA Damage
<b>Storage:</b>	-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

<b>In Vitro</b>	DMSO : 130 mg/mL (505.36 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	<b>Preparing Stock Solutions</b>		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.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 3.25 mg/mL (12.63 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 3.25 mg/mL (12.63 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 3.25 mg/mL (12.63 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	5-Methylcytidine is a pyrimidine nucleoside detected in multiple biofluids.
<b>IC<sub>50</sub> &amp; Target</b>	Human Endogenous Metabolite

---

**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](mailto:tech@MedChemExpress.com)

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