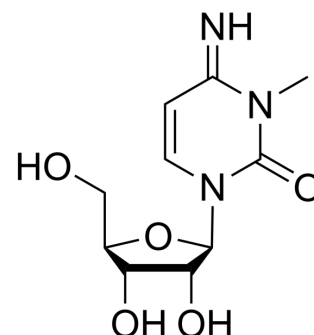


3-Methylcytidine

Cat. No.:	HY-111645		
CAS No.:	2140-64-9		
Molecular Formula:	C ₁₀ H ₁₅ N ₃ O ₅		
Molecular Weight:	257.24		
Target:	Nucleoside Antimetabolite/Analog		
Pathway:	Cell Cycle/DNA Damage		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

H₂O : 90 mg/mL (349.87 mM; Need ultrasonic)
 DMSO : 83.33 mg/mL (323.94 mM; Need ultrasonic)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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

- Add each solvent one by one: PBS
Solubility: 100 mg/mL (388.74 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (8.09 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (8.09 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (8.09 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

3-Methylcytidine, a urinary nucleoside, can be used as a biomarker of four different types of cancer: lung cancer, gastric cancer, colon cancer, and breast cancer^[1].

CUSTOMER VALIDATION

- Nucleic Acids Res. 2022 Apr 22;50(7):4012-4028.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Hsu WY, et al. Urinary nucleosides as biomarkers of breast, colon, lung, and gastric cancer in Taiwanese. PLoS One. 2013 Dec 19;8(12):e81701.

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

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