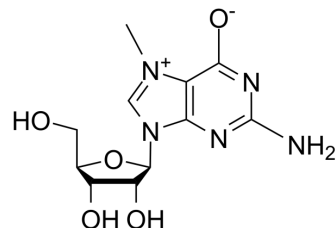


7-Methylguanosine

Cat. No.:	HY-122524		
CAS No.:	20244-86-4		
Molecular Formula:	C ₁₁ H ₁₅ N ₅ O ₅		
Molecular Weight:	297.27		
Target:	Nucleoside Antimetabolite/Analog; Endogenous Metabolite		
Pathway:	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

H₂O : 25 mg/mL (84.10 mM; ultrasonic and warming and heat to 60°C)
 DMSO : 12.5 mg/mL (42.05 mM; Need ultrasonic)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.3639 mL	16.8197 mL	33.6395 mL
	5 mM	0.6728 mL	3.3639 mL	6.7279 mL
	10 mM	0.3364 mL	1.6820 mL	3.3639 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: PBS
Solubility: 8.33 mg/mL (28.02 mM); Clear solution; Need ultrasonic and warming and heat to 60°C
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 1.25 mg/mL (4.20 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 1.25 mg/mL (4.20 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 1.25 mg/mL (4.20 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

7-Methylguanosine is a novel cNIIIB nucleotidase inhibitor with IC₅₀ value of 87.8 ± 7.5 μM.

IC₅₀ & Target

Human Endogenous Metabolite

REFERENCES

[1]. Kozarski M, et al. 7-Methylguanosine monophosphate analogues with 5'-(1,2,3-triazoyl) moiety: Synthesis and evaluation as the inhibitors of cNIIIB nucleotidase. Bioorg Med Chem. 2018 Jan 1;26(1):191-199.

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

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