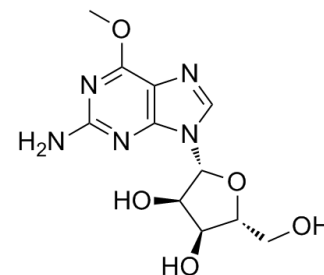


6-O-Methyl Guanosine

Cat. No.:	HY-111648		
CAS No.:	7803-88-5		
Molecular Formula:	C ₁₁ H ₁₅ N ₅ O ₅		
Molecular Weight:	297.27		
Target:	Nucleoside Antimetabolite/Analog		
Pathway:	Cell Cycle/DNA Damage		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



Solvent & Solubility

In Vitro

DMSO : 130 mg/mL (437.31 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
	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: **10% DMSO >> 90% (20% SBE-β-CD in saline)**
Solubility: ≥ 6.5 mg/mL (21.87 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline**
Solubility: ≥ 6.5 mg/mL (21.87 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% corn oil**
Solubility: ≥ 6.5 mg/mL (21.87 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

6-O-Methyl Guanosine is a modified nucleoside^[1]. 6-O-Methyl Guanosine (6-methylguanosine) inhibit colony-forming ability in a malignant xeroderma pigmentosum cell line^[2].

REFERENCES

[1]. Grasby JA, et al. The synthesis of oligoribonucleotides containing O6-methylguanosine: the role of conserved guanosine residues in hammerhead ribozyme cleavage. *Nucleic Acids Res.* 1993 Sep 25;21(19):4444-50.

[2]. Thielmann HW, et al. 6-Methylguanine and 6-methylguanosine inhibit colony-forming ability in a malignant xeroderma pigmentosum cell line but not in other xeroderma pigmentosum and normal human fibroblast strains after treatment with 1-(2-chloroethyl)-1-nitroso-3-(2-hydroxyethyl)-urea. *J Cancer Res Clin Oncol.* 1987;113(1):67-72.

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

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