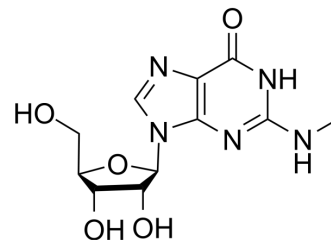


## N2-Methylguanosine

<b>Cat. No.:</b>	HY-111647		
<b>CAS No.:</b>	2140-77-4		
<b>Molecular Formula:</b>	C <sub>11</sub> H <sub>15</sub> N <sub>5</sub> O <sub>5</sub>		
<b>Molecular Weight:</b>	297.27		
<b>Target:</b>	Nucleoside Antimetabolite/Analog; Endogenous Metabolite		
<b>Pathway:</b>	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 7.69 mg/mL (25.87 mM; Need ultrasonic)  
 H<sub>2</sub>O : 1 mg/mL (3.36 mM; ultrasonic and warming and heat to 80°C)

Preparing Stock Solutions	Solvent		1 mg	5 mg	10 mg
	Concentration	Mass			
	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 >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
 Solubility: ≥ 0.77 mg/mL (2.59 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
 Solubility: ≥ 0.77 mg/mL (2.59 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
 Solubility: 0.77 mg/mL (2.59 mM); Clear solution; Need ultrasonic

### BIOLOGICAL ACTIVITY

#### Description

N2-methylguanosine is a modified nucleoside that occurs at several specific locations in many tRNA's.

#### IC<sub>50</sub> & Target

Microbial Metabolite

Human Endogenous Metabolite

### REFERENCES

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

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