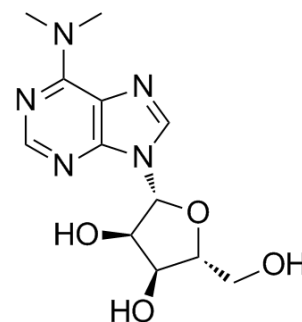


## N6,N6-Dimethyladenosine

Cat. No.:	HY-101984		
CAS No.:	2620-62-4		
Molecular Formula:	C <sub>12</sub> H <sub>17</sub> N <sub>5</sub> O <sub>4</sub>		
Molecular Weight:	295.29		
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 : ≥ 125 mg/mL (423.31 mM)

\* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.3865 mL	16.9325 mL	33.8650 mL
	5 mM	0.6773 mL	3.3865 mL	6.7730 mL
	10 mM	0.3387 mL	1.6933 mL	3.3865 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: ≥ 2.08 mg/mL (7.04 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% (20% SBE-β-CD in saline)**  
Solubility: ≥ 2.08 mg/mL (7.04 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% corn oil**  
Solubility: ≥ 2.08 mg/mL (7.04 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

N6,N6-Dimethyladenosine is a modified ribonucleoside previously found in rRNA, and also exhibits in mycobacterium bovis Bacille Calmette-Guérin tRNA<sup>[1]</sup>.

### REFERENCES

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[1]. Chan CT, et al. Identification of N6,N6-dimethyladenosine in transfer RNA from Mycobacterium bovis Bacille Calmette-Guérin. *Molecules*. 2011 Jun 21;16(6):5168-81.

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

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