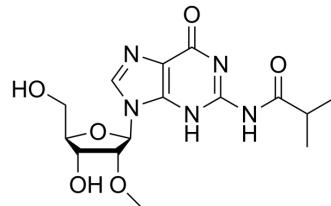


## N2-Isobutyryl-2'-O-methylguanosine

<b>Cat. No.:</b>	HY-21286		
<b>CAS No.:</b>	63264-29-9		
<b>Molecular Formula:</b>	C <sub>15</sub> H <sub>21</sub> N <sub>5</sub> O <sub>6</sub>		
<b>Molecular Weight:</b>	367.36		
<b>Target:</b>	Nucleoside Antimetabolite/Analog		
<b>Pathway:</b>	Cell Cycle/DNA Damage		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (272.21 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.7221 mL	13.6106 mL	27.2213 mL
	5 mM		0.5444 mL	2.7221 mL	5.4443 mL
	10 mM		0.2722 mL	1.3611 mL	2.7221 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: ≥ 2.5 mg/mL (6.81 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (6.81 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (6.81 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

N2-Isobutyryl-2'-O-methylguanosine (N2-IBU-2'-OME-RG) is a purine nucleoside analog. Purine nucleoside analogs have broad antitumor activity targeting indolent lymphoid malignancies. Anticancer mechanisms in this process rely on inhibition of DNA synthesis, induction of apoptosis, etc<sup>[1]</sup>.

### REFERENCES

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA