Product Data Sheet

N2-Isobutyryl-2'-O-methylguanosine

Cat. No.: HY-21286 CAS No.: 63264-29-9 Molecular Formula: $C_{15}H_{21}N_5O_6$ Molecular Weight: 367.36

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

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	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

- 1. 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
- 2. 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^[1].

REFERENCES

1]. Robak T, Robak P. Purine nu	ucleoside analogs in the treatment of rarer chronic lymphoid leuk	emias. Curr Pharm Des. 2012;18(23):3373-88.
	Caution: Product has not been fully validated for medical	al applications. For research use only.
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