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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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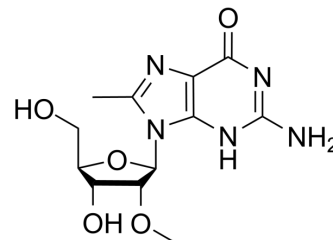
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2'-O-Methyl-8-methyl guanosine

Cat. No.:	HY-145998
CAS No.:	2306782-64-7
Molecular Formula:	C ₁₂ H ₁₇ N ₅ O ₅
Molecular Weight:	311.29
Target:	Others
Pathway:	Others
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 (321.24 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		3.2124 mL	16.0622 mL	32.1244 mL
		5 mM		0.6425 mL	3.2124 mL	6.4249 mL
		10 mM		0.3212 mL	1.6062 mL	3.2124 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 (8.03 mM); Clear solution; Need ultrasonic					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (8.03 mM); Clear solution; Need ultrasonic					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (8.03 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	2'-O-Methyl-8-methyl guanosine (m8Gm) is a Z-form RNA stabilizer. 2'-O-Methyl-8-methyl guanosine can markedly stabilize the Z-RNA at low salt conditions ^[1] . m8Gm-contained oligonucleotides stabilize the Z-DNA under low salt conditions ^[2] .
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REFERENCES

[1]. Balasubramaniyam T, Ishizuka T, Xu Y. Stability and properties of Z-DNA containing artificial nucleobase 2'-O-methyl-8-methyl guanosine. Bioorg Med Chem.

2019;27(2):364-369.

[2]. Balasubramaniyam T, Ishizuka T, Xiao CD, Bao HL, Xu Y. 2'-O-Methyl-8-methylguanosine as a Z-Form RNA Stabilizer for Structural and Functional Study of Z-RNA. Molecules. 2018;23(10):2572.

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

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