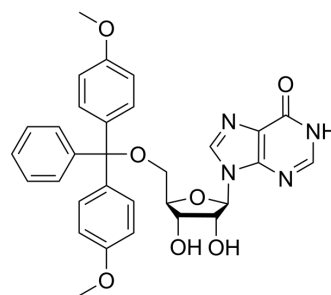


5'-O-DMT-ri

Cat. No.:	HY-138608
CAS No.:	119898-59-8
Molecular Formula:	C ₃₁ H ₃₀ N ₄ O ₇
Molecular Weight:	570.59
Target:	DNA/RNA Synthesis; Nucleoside Antimetabolite/Analog
Pathway:	Cell Cycle/DNA Damage
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (438.14 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		1.7526 mL	8.7629 mL	17.5257 mL
		5 mM		0.3505 mL	1.7526 mL	3.5051 mL
10 mM		0.1753 mL	0.8763 mL	1.7526 mL		
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (3.65 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (3.65 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (3.65 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	5'-O-DMT-Ri can be used in the synthesis of oligoribonucleotides ^[1] .
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REFERENCES

[1]. Kadokura M. Synthesis of 4-thiouridine, 6-thioinosine, and 6-thioguanosine 3',5'-O-bisphosphates as donor molecules for RNA ligation and their application to the synthesis of photoactivatable TMG-capped U1 snRNA fragments. J Org Chem. 2000 Aug 25;65(17):5104-13.

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

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