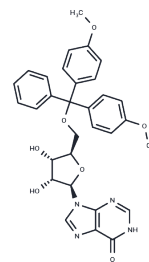


5'-O-DMT-ri

Chemical Properties

CAS No. :	119898-59-8
Formula:	C ₃₁ H ₃₀ N ₄ O ₇
Molecular Weight:	570.59
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	5'-O-DMT-Ri can be used in the synthesis of oligoribonucleotides[1].
Targets(IC50)	Nucleoside Antimetabolite/Analog,Others,DNA/RNA Synthesis

Solubility Information

Solubility	DMSO: 250 mg/mL (438.14 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (5.78 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0351 mL	0.1753 mL	0.3505 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

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