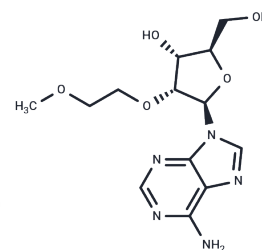


2'-O-(2-Methoxyethyl)adenosine

Chemical Properties

CAS No. :	168427-74-5
Formula:	C ₁₃ H ₁₉ N ₅ O ₅
Molecular Weight:	325.32
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	2'-O-(2-Methoxyethyl)adenosine is a nucleoside analog used to improve RNA target affinity and nuclease resistance of therapeutic oligonucleotides in preclin.
Targets(IC50)	DNA/RNA Synthesis

Solubility Information

Solubility	DMSO: 40 mg/mL (122.96 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: 2 mg/mL (6.15 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	3.0739 mL	15.3695 mL	30.739 mL
5 mM	0.6148 mL	3.0739 mL	6.1478 mL
10 mM	0.3074 mL	1.5369 mL	3.0739 mL
50 mM	0.0615 mL	0.3074 mL	0.6148 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

Marais G, et al. Chemo-enzymatic synthesis of 2'-O-methoxyethyl ribonucleosides using a phosphodiesterase from *Serratia marcescens*. *Appl Microbiol Biotechnol*. 2005;66(5):512-519.

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