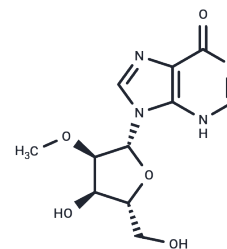


2'-O-Methylinosine

Chemical Properties

CAS No. :	3881-21-8
Formula:	C ₁₁ H ₁₄ N ₄ O ₅
Molecular Weight:	282.25
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	2'-O-Methylinosine (2'-(o-Methyl)-inosine) is an orally active purine nucleoside analog with antihypertensive activity.
Targets(IC50)	Nucleoside Antimetabolite/Analog
In vitro	2'-O-Methylinosine effectively inhibits FRC6 virus reverse transcriptase activity in cell-free systems. [1]
In vivo	2'-O-Methylinosine (100 mg/kg, ip) has a significant antihypertensive effect in rats. [2]

Solubility Information

Solubility	DMSO: 80 mg/mL (283.44 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.543 mL	17.7148 mL	35.4296 mL
5 mM	0.7086 mL	3.543 mL	7.0859 mL
10 mM	0.3543 mL	1.7715 mL	3.543 mL
50 mM	0.0709 mL	0.3543 mL	0.7086 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

Takase-Yoden S, et al. Inhibition of neurotropic mouse retrovirus replication in glial cells by synthetic oligo(2'-O-methyl)ribonucleoside phosphorothioates. Antiviral Res. 1995 Dec;28(4):359-68.

Yamada T, et al. Naturally occurring 2'-O-methylpurine nucleosides with hypotensive properties. Cell Mol Life Sci. 1998 Feb;54(2):125-8.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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