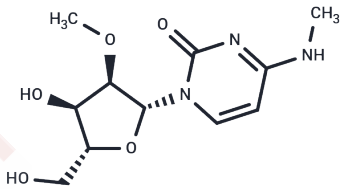
Data Sheet (Cat.No.TNU0125)

TargetMol

N4-Methyl-2'-O-methyl-cytidine

Chemical Properties



CAS No. : 13048-95-8

Formula: C11H17N3O5

Molecular Weight: 271.27

Storage: Keep away from moisture,Store at low temperature,
Store under nitrogen
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	N4-Methyl-2'-O-methyl-cytidine is a modified cytidine analog that has been used as an antibiotic and research reagent, inhibiting bacterial protein synthesis through ribosomal binding, N4-Methyl-2'-O-methyl-cytidine is also utilized in the study of enhancement RNA stability in thermophilic organisms, supporting investigations into translational control, RNA modification, and nucleoside-based antimicrobial strategies.
Targets(IC50)	Nucleoside Antimetabolite/Analog
In vivo	In experimental models of indolent lymphoid malignancies, N4-Methyl-2'-O-methyl-cytidine demonstrates antitumor activity. The compound's efficacy is linked to its ability to disrupt DNA replication within the tumor microenvironment [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6864 mL	18.4318 mL	36.8636 mL
5 mM	0.7373 mL	3.6864 mL	7.3727 mL
10 mM	0.3686 mL	1.8432 mL	3.6864 mL
50 mM	0.0737 mL	0.3686 mL	0.7373 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

Robak T, et al. Purine nucleoside analogs in the treatment of rarer chronic lymphoid leukemias. Curr Pharm Des. 2012;18(23):3373-88.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481