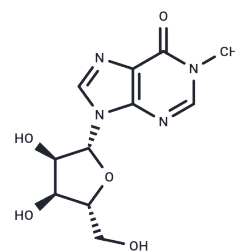


1-Methylinosine

Chemical Properties

CAS No. :	2140-73-0
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	1-Methylinosine (N1-Methylinosine) is a modified nucleotide found at position 37 in tRNA 3' to the anticodon of eukaryotic tRNA and has a role as a metabolite.
Targets(IC50)	Nucleoside Antimetabolite/Analog, Endogenous Metabolite

Solubility Information

Solubility	DMSO: 20.83 mg/mL (73.8 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 (7.09 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	3.543 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

1-Methylinosine-Human Metabolome Database.

Tormey DC, Waalkes TP, Gehrke CW. Biological markers in breast carcinoma--clinical correlations with pseudouridine, N2,N2-dimethylguanosine, and 1-methylinosine. J Surg Oncol. 1980;14(3):267-73.

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