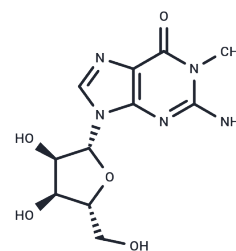


1-Methylguanosine

Chemical Properties

CAS No. :	2140-65-0
Formula:	C ₁₁ H ₁₅ N ₅ O ₅
Molecular Weight:	297.27
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-Methylguanosine (N1-Methylguanosine) is a methylated nucleoside. It is known that some modified, especially methylated, nucleosides originating from RNA degradation are excreted in abnormal levels in the urine of patients with malignant tumors.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 125 mg/mL (420.49 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (33.64 mM),Solution. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (13.46 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	3.3639 mL	16.8197 mL	33.6395 mL
5 mM	0.6728 mL	3.3639 mL	6.7279 mL
10 mM	0.3364 mL	1.682 mL	3.3639 mL
50 mM	0.0673 mL	0.3364 mL	0.6728 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

Liebich HM, et al. Quantitation of urinary nucleosides by high-performance liquid chromatography. J Chromatogr A. 1997 Feb 28;763(1-2):193-7.

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