

1-Methylguanosine

Chemical Properties

CAS No.:	2140-65-0
Formula:	C ₁₁ H ₁₂ N ₅ O ₅
Molecular Weight:	297.27
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	1-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.
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Solubility Information

Solubility	DMSO: 120 mg/mL (403.67 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.364 mL	16.82 mL	33.639 mL
5 mM	0.673 mL	3.364 mL	6.728 mL
10 mM	0.336 mL	1.682 mL	3.364 mL
50 mM	0.067 mL	0.336 mL	0.673 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. 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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