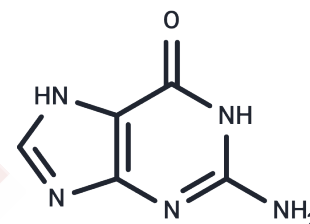


Guanine

Chemical Properties

CAS No. :	73-40-5
Formula:	C ₅ H ₅ N ₅ O
Molecular Weight:	151.13
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	Guanine (2-Aminohypoxanthine) is a purine base that is a constituent of nucleotides occurring in nucleic acids.
Targets(IC50)	Endogenous Metabolite,DNA/RNA Synthesis

Solubility Information

Solubility	DMSO: < 0.33 mg/mL (insoluble or slightly soluble) 0.1 M NaOH: 2 mg/mL (13.23 mM),Sonication is recommended. H ₂ O: Insoluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.6168 mL	33.0841 mL	66.1682 mL
5 mM	1.3234 mL	6.6168 mL	13.2336 mL
10 mM	0.6617 mL	3.3084 mL	6.6168 mL
50 mM	0.1323 mL	0.6617 mL	1.3234 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

- Sugimoto, M., et al.: J. Agric. Food Chem., 58, 374 (2010)
Chen J, Li T, Huang D, et al. Integrating UHPLC-MS/MS quantitative analysis and exogenous purine supplementation to elucidate the antidepressant mechanism of Chaigui granules by regulating purine metabolism. Journal of Pharmaceutical Analysis. 2023
Gong, B., et al.: Biochem., 48, 1961 (2009)
Manini, P., et al.: Toxicol. Lett., 190, 41 (2009)

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