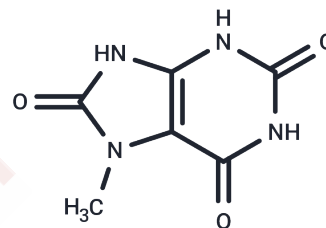


7-Methyluric Acid

Chemical Properties

CAS No. :	612-37-3
Formula:	C ₆ H ₆ N ₄ O ₃
Molecular Weight:	182.14
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	7-Methyluric Acid is a metabolite of caffeine produced by xanthine oxidase and detectable in urine.
Targets(IC50)	Endogenous Metabolite, Drug Metabolite

Solubility Information

Solubility	DMF: 5 mg/mL (27.45 mM), Sonication is recommended. DMSO:PBS (pH 7.2) (1:1): 0.5 mg/mL (2.75 mM), Sonication is recommended. DMSO: 16 mg/mL (87.84 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.4903 mL	27.4514 mL	54.9028 mL
5 mM	1.0981 mL	5.4903 mL	10.9806 mL
10 mM	0.549 mL	2.7451 mL	5.4903 mL
50 mM	0.1098 mL	0.549 mL	1.0981 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

Tarka SM Jr, et al. Theobromine kinetics and metabolic disposition. Clin Pharmacol Ther. 1983 Oct;34(4):546-55.

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