

6-(Methylthio)purine

Chemical Properties

CAS No. :	50-66-8
Formula:	C ₆ H ₆ N ₄ S
Molecular Weight:	166.204
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	6-(Methylthio)purine is a small molecule used in chemical synthesis that exhibits inhibitory activity against MCF-7 cells (IC ₅₀ = 23.6 μM).
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 80.00 mg/mL (481.34 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	6.0168 mL	30.0842 mL	60.1685 mL
5 mM	1.2034 mL	6.0168 mL	12.0337 mL
10 mM	0.6017 mL	3.0084 mL	6.0168 mL
50 mM	0.1203 mL	0.6017 mL	1.2034 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

Sugimura H, Takei H. Synthesis of 6-alkylpurine derivatives by nickel-complex-catalyzed coupling reaction of 6-(methylthio) purine derivatives with Grignard reagents. Bulletin of the Chemical Society of Japan, 1985, 58(2): 664-666.

Conejo-García A, et al. Regiospecific microwave-assisted synthesis and cytotoxic activity against human breast cancer cells of (RS)-6-substituted-7- or 9-(2,3-dihydro-5H-1,4-benzodioxepin-3-yl)-7H- or -9H-purines. Eur J Med Chem. 2008;43(8):1742-1748.

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