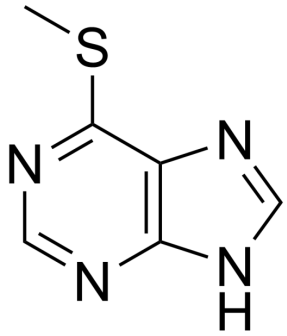
6-(Methylthio)purine

Cat. No.:	HY-W097453
CAS No.:	50-66-8
Molecular Formula:	$C_6H_6N_4S$
Molecular Weight:	166.2
Target:	Others
Pathway:	Others
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (601.68 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (15.04 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (15.04 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (15.04 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

6-(Methylthio)purine (6-Methylmercaptopurine) is a small molecule that can be used for compound synthesis[1].

REFERENCES

[1]. 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.

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