

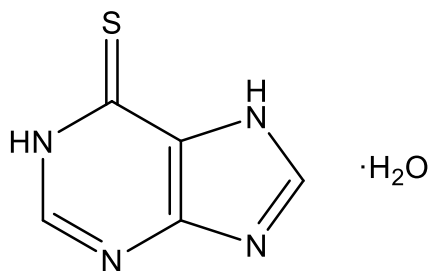
Catalog # 10-4698

6-Mercaptopurine

CAS# 6112-76-1

3,7-Dihydropurine-6-thione monohydrate; 6-MP

Lot # FBS3005



6-Mercaptopurine (6-MP) is a purine antimetabolite drug used to treat acute lymphocytic leukemia, Crohn's disease, ulcerative colitis, and inflammatory bowel disease.¹ It inhibits DNA synthesis by inhibiting the production of purine containing nucleotides. The immunomodulatory activity of 6-Mercaptopurine is mainly the result of the 6-MP metabolite 6-thioguanine triphosphate (6-TGTP) binding to small GTPase Rac1.²

- 1) Sahasranaman *et al.* (2008), *Clinical pharmacology and pharmacogenetics of thiopurines*; Eur. J. Clin. Pharmacol., **64** 753
- 2) De Boer *et al.* (2018), *Thiopurines in Inflammatory Bowel Disease: New Findings and Perspectives*; J. Crohns Colitis., **12** 610

PHYSICAL DATA

Molecular Weight:	170.19
Molecular Formula:	C ₅ H ₄ N ₄ S·H ₂ O
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (>50 mg/ml); ethanol (5 mg/ml with warming)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied desiccated at room temperature for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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