



LKT Laboratories, Inc.

6-Mercaptopurine Monohydrate

Phone: 888-558-5227

651-644-8424

Fax: 888-558-7329

Email: getinfo@lktlabs.com

Web: lktlabs.com

Product Information

Product ID M1669

CAS No. 6112-76-1

Chemical Name 1,7-Dihydro-6H-pyrimidine-6-thione

Synonym Purine-6-thiol, 6MP, Leukerin Mercaptopurine, Purinethol: 6-Purinethiol

Formula $C_5H_4N_4S \cdot H_2O$

Formula Wt. 170.20

Melting Point 313-314°C(dec.)

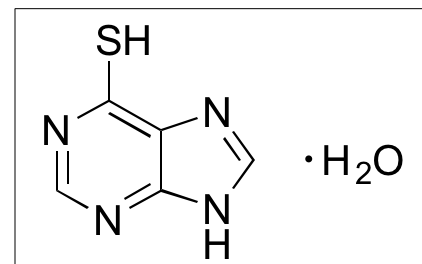
Purity ≥98%

Solubility Insoluble in water. Soluble in methanol and hot ethanol.

Store Temp Ambient

Ship Temp Ambient

Description 6-Mercaptopurine is a thiopurine antimetabolite; it exhibits immunosuppressive, anti-inflammatory, and anticancer chemotherapeutic activities. This compound is clinically used to treat inflammatory bowel disorder (IBD), Crohn's disease, and leukemias and lymphomas. This compound suppresses metabolism of inosine monophosphate (IMP), inhibiting phosphoribosylpyrophosphate amidotransferase; this prevents synthesis of purines, DNA, and RNA.



Bulk quantities available upon request

Product ID	Size
M1669	1 g
M1669	5 g
M1669	25 g

References Bradford K, Shih DQ. Optimizing 6-mercaptopurine and azathioprine therapy in the management of inflammatory bowel disease. *World J Gastroenterol.* 2011 Oct 7;17(37):4166-73. PMID: 22072847.

Nielsen OH, Vainer B, Rask-Madsen J. Review article: the treatment of inflammatory bowel disease with 6-mercaptopurine or azathioprine. *Aliment Pharmacol Ther.* 2001 Nov;15(11):1699-708. PMID: 11683683.

Lennard L, Welch JC, Lilleyman JS. Thiopurine drugs in the treatment of childhood leukaemia: the influence of inherited thiopurine methyltransferase activity on drug metabolism and cytotoxicity. *Br J Clin Pharmacol.* 1997 Nov;44(5):455-61. PMID: 9384462.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.