

Catalog	Unit
TBI4698-200MG	200 mg
TBI4698-1G	1 g

Product Details

Formal Name: 3,7-Dihydropurine-6-thione monohydrate

Alternate Names: 6-MP

Molecular Formula: C₅H₄N₄S·H₂O

Formula Weight: 170.19

CAS Number: 6112-76-1

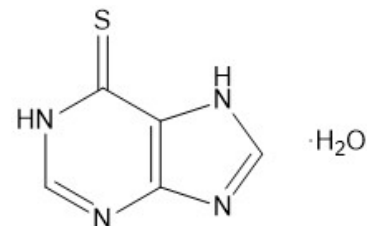
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 50 mg/ml) or in Ethanol (up to 5 mg/ml with warming)

Storage: RT

Stability: ≥ 2 years.



Applications

Purine antimetabolite and immunomodulator

Functions

Purine antimetabolite drug used to treat acute lymphocytic leukemia, Crohn's disease, ulcerative colitis, and inflammatory bowel disease. 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.

Application Procedures

First dissolved in DMSO (up to 50 mg/ml) or in Ethanol (up to 5 mg/ml with warming), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

For research use only.