

Certificate of Analysis

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Product Name: Azathioprine

CAS Number: 446-86-6

IUPAC Name: 6-[(1-Methyl-4-nitro-1*H*-imidazol-5-yl)thio]-9*H*-purine

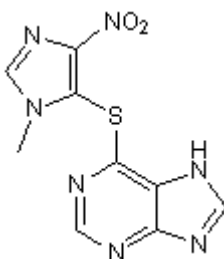
Catalog No.: 4099

Batch No.: 1

EC Number: 207-175-4

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₉H₇N₇O₂S
Batch Molecular Weight: 277.26
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	38.99	2.54	35.36
Found	39.19	2.56	35.52

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Product Information

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Description:

Purine analog. Blocks DNA replication and the de novo pathway of purine synthesis. Immunosuppressive and anti-inflammatory drug; induces apoptosis in human T-lymphocytes. Prodrug of 6-mercaptopurine (Cat. No. 4103).

Physical and Chemical Properties:

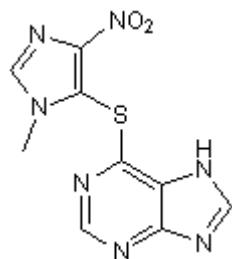
Batch Molecular Formula: C₉H₇N₇O₂S

Batch Molecular Weight: 277.26

Physical Appearance: Yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Maltzman and Koretzky (2003) Azathioprine: old drug, new actions. *J.Clin.Invest.* **111** 1122. PMID: 12697731.

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