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Product Information

Product ID	A9803	NO ₂	
CAS No.	446-86-6		
Chemical Name	6-((1-methyl-4-nitroimidazol-5-yl)thio)purine; 6-((1-Methyl-4-nitro-1H- imidazol-5-yl)thio)purine; Imuran; Imurek; Imurel; Methylnitroimidazolylmercaptopurine		N S
Synonym	AZA		
Formula	C ₉ H ₇ N ₇ O ₂ S		••
Formula Wt.	277.26		
Melting Point	243-244°C(dec)	Bulk quanitites available upon request	
Purity Solubility	Insoluble in water, slightly soluble in ethanol, soluble in DMSO.	Product ID 49803 49803 49803	Size 1 g 5 g 10 g
Store Temp	Ambient		
Ship Temp	Ambient		
Description	Azathioprine is a purine analog that acts as a prodrug of mercaptopurine. Azathioprine exhibits anticancer chemotherapeutic, immunosuppressive, and antiviral activities. Azathioprine inhibits amidophosphoribosyl transferase, inhibiting the production of adenine and guanine purines and preventing DNA synthesis. Azathioprine is clinically used to suppress the immune response in organ transplant subjects and is currently in clinical trials exploring its chemotherapeutic benefit. Azathioprine suppresses experimental autoimmune myasthenia gravis in animal models. In vitro, azathioprine downregulates expression of ANF-related		

References Hernández-Breijo B, Monserrat J, Ramírez-Rubio S, et al. Preclinical evaluation of azathioprine plus buthionine sulfoximine in the treatment of human hepatocarcinoma and colon carcinoma. World J Gastroenterol. 2011 Sep 14;17(34):3899-911. PMID: 22025878.

cells (APCs) and T cells. Azathioprine also exhibits antiviral activity against bovine viral diarrhea virus.

Hoover S, Striker R. Thiopurines inhibit bovine viral diarrhea virus production in a thiopurine methyltransferase-dependent manner. J Gen Virol. 2008 Apr;89(Pt 4):1000-9. PMID: 18343842.

apoptosis-inducing ligand and, separately, inhibits Vav activity on Rac GTPases, preventing conjugation of antigen-presenting

Poppe D, Tiede I, Fritz G, et al. Azathioprine suppresses ezrin-radixin-moesin-dependent T cell-APC conjugation through inhibition of Vav guanosine exchange activity on Rac proteins. J Immunol. 2006 Jan 1;176(1):640-51. PMID: 16365460.

Fuchs S, Bartfeld D, Eshhar Z, et al. Immune regulation of experimental myasthenia. J Neurol Neurosurg Psychiatry. 1980 Jul;43 (7):634-43. PMID: 7400824.

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