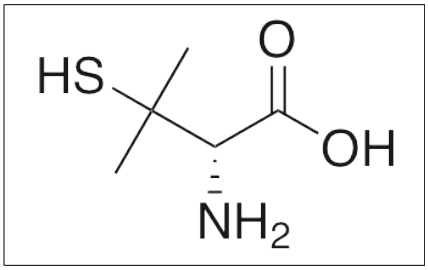
LKT Laboratories, Inc.

Penicillamine

Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lktlabs.com
Web: lktlabs.com

Product Information

Product ID P1753
CAS No. 52-67-5
Chemical Name 3-Mercapto-D-valine



Synonym Cuprimine, Depen, DMC, D-Penamine, Mercaptyl, Pendramine, Sufortan, Trolovol

Formula $C_5H_{11}NO_2S$
Formula Wt. 149.21
Melting Point 202-206°C
Purity ≥97%
Solubility Soluble in water. Slightly soluble in alcohol. Insoluble in ether, acetone, benzene, and carbon tetrachloride.

Bulk quanitites available upon request

Product ID	Size
P1753	1 g
P1753	5 g
P1753	25 g

Store Temp Ambient
Ship Temp Ambient

Description Penicillamine is a penicillin derivative that does not exhibit antibiotic activity. Penicillamine is a chelating compound that is clinically used to treat rheumatoid arthritis; it exhibits immunosuppressive, anti-inflammatory, and anti-allergic activities. In vitro, penicillamine decreases expression of IL-1, cross-linking of collagen, and activity of macrophages; it also decreases overall T cell levels. Penicillamine also inhibits carboxypeptidases and separately, decreases allergen-induced production of immunoglobulins.

References

Chong CR, Auld DS. Inhibition of carboxypeptidase A by D-penicillamine: mechanism and implications for drug design. Biochemistry. 2000 Jun 27;39(25):7580-8. PMID: 10858308.

Meyer O. D-penicillamine: mechanism of cellular action and induced autoimmune diseases. Rev Rhum Mal Osteoartic. 1986 Jan;53(1):15-20. PMID: 2939541.

Camp AV. Penicillamine in the treatment of rheumatoid arthritis. Proc R Soc Med. 1977 Feb;70(2):67-9. PMID: 859814.