



LKT Laboratories, Inc.

Cimetidine

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Product Information

Product ID C3250

CAS No. 51481-61-9

Chemical Name N-Cyano-N'-methyl-N"-[2-[[[(5-methyl-1H-imidazol-4-yl)methyl]thio]ethyl]guanidine

Synonym Acibilin, Acinil, Cimetag, Edalene, Eureceptor, Gastromet, Peptol, Ulcerfen, Ulcomet

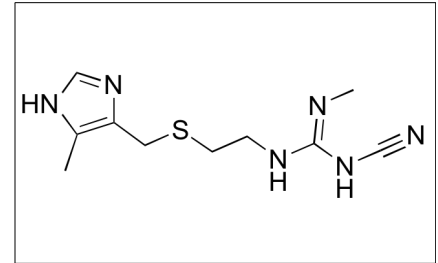
Formula C₁₀H₁₆N₆S

Formula Wt. 252.34

Melting Point 141-143 °C

Purity ≥98%

Solubility Soluble in water at 37°C.



Bulk quantities available upon request

Product ID	Size
C3250	5 g
C3250	10 g
C3250	25 g

Store Temp 4 °C

Ship Temp Ambient

Description Cimetidine is an antihistamine that inhibits H₂ histamine receptors, exhibiting antacid and anticancer chemotherapeutic activities. Cimetidine inhibits catalase activity and also acts as an antagonist at androgen receptors. Cimetidine increases the efficacy of chemotherapeutic compounds when administered concurrently; in animal models of lung cancer, it increases expression of IFN-γ and Fas, inhibiting tumor growth.

References Masoud M, Ebrahimi F, Minai-Tehrani D. Effect of Cimetidine on Catalase Activity of Pseudomonas aeruginosa: A Suggested Mechanism of Action. J Mol Microbiol Biotechnol. 2014 Jul 2;24(3):196-201. PMID: 24993120.

Zheng Y, Xu M, Li X, et al. Cimetidine suppresses lung tumor growth in mice through proapoptosis of myeloid-derived suppressor cells. Mol Immunol. 2013 May;54(1):74-83. PMID: 23220070.

Matsumoto S, Imaeda Y, Umemoto S, et al. Cimetidine increases survival of colorectal cancer patients with high levels of sialyl Lewis-X and sialyl Lewis-A epitope expression on tumour cells. Br J Cancer. 2002 Jan 21;86(2):161-7. PMID: 11870500.

Richards DA. Comparative pharmacodynamics and pharmacokinetics of cimetidine and ranitidine. J Clin Gastroenterol. 1983;5 Suppl 1:81-90. PMID: 6317740.

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