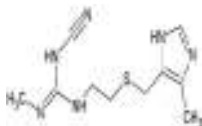


# Cimetidine

**ALTERNATE NAME:** N-cyano-N"-methyl-N'-[2-[[[4-methyl-1H-imidazol-5-yl)methyl]thio]ethyl]-guanidine  
NSC 335308  
SKF 92334

**CATALOG #:** B3315-1G 1 g  
B3315-5G 5 g

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>10</sub>H<sub>16</sub>N<sub>6</sub>S

**MOLECULAR WEIGHT:** 252.34

**CAS NUMBER:** 51481-61-9

**APPEARANCE:** White to off-white solid

**PURITY:** ≥98% by HPLC

**SOLUBILITY:** >30 mg/ml DMSO

**DESCRIPTION:** Cimetidine is a potent histamine H<sub>2</sub> receptor antagonist (K<sub>i</sub> = 0.6 μM). It also acts as an inverse agonist, inhibiting basal cAMP production in CHO cells expressing recombinant H<sub>2</sub> receptors (IC<sub>50</sub> = 1.2 μM). Cimetidine inhibits histamine-induced acid secretion from isolated bullfrog gastric mucosa (IC<sub>50</sub> = 16 μM).

**STORAGE TEMPERATURE:** -20°C. Protect from light

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**RELATED PRODUCTS:**

Clemastine Fumarate (B2525)  
Conessine (B2772)  
Chlorpromazine Hydrochloride (B1992)  
Cetirizine dihydrochloride (B2993)  
Triflupromazine hydrochloride (B1993)

**DISCLAIMER:** *FOR RESEARCH USE ONLY! Not to be used on humans.*