



Product Information

Cimetidine

Cat. No.: X23-12-YM437

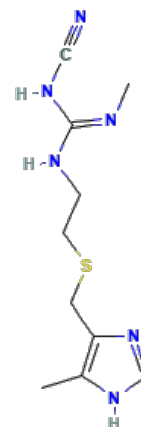
Size: 250 mg; 500 mg; 750 mg; 1 g

CAS Number: 51481-61-9

PubChem CID: 2756

Synonym: 51481-61-9; SKF-92334

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	Cimetidine, soluble in DMSO and ethanol and insoluble in water, inhibits the signaling pathway between G-protein-coupled receptors (GPCRs) and G proteins. It targets histamine H2 receptor.
Molecular Weight	252.34
Molecular Formula	C ₁₀ H ₁₆ N ₆ S
Targets	Histamine H2 receptor
IUPAC Name	1-Cyano-2-methyl-3-[[2-[(5-methyl-1H-imidazol-4-yl)methylsulfanyl]ethyl]guanidine
InChI	InChI=1S/C10H16N6S/c1-8-9(16-7-15-8)5-17-4-3-13-10(12-2)14-6-11/h7H, 3-5H2, 1-2H3, (H, 15, 16)(H2, 12, 13, 14)
InChI Key	AQIXAKUUQRKLND-UHFFFAOYSA-N
Canonical SMILES	CC1=C(N=CN1)CSCCNC(=NC)NC#N
Form	Lyophilized powder
Purity	>98%
Solubility	DMSO: 46 mg/mL (182.29 mM); Water: insoluble; Ethanol: 3 mg/mL (11.88 mM)
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
Applications	Cimetidine can be used to prevent aspiration pneumonitis, a lung inflammation caused by the inhalation of stomach contents (including acid) into the lungs.
Storage	Store at -20°C, and keep desiccated.