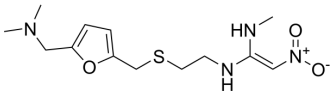
Ranitidine

Cat. No.:	HY-B0693
CAS No.:	66357-35-5
Molecular Formula:	$C_{13}H_{22}N_4O_3S$
Molecular Weight:	314.4
Target:	Histamine Receptor; Bacterial; Cytochrome P450
Pathway:	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling; Anti-infection; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Ranitidine is a potent, selective and orally active histamine H2-receptor antagonist with an IC_{50} of 3.3 μM that inhibits gastric secretion. Ranitidine is a weak inhibitor of CYP2C19 and CYP2C9[1][2].		
IC_{50} & Target	H_2 Receptor 3.3 μM (IC_{50})	CYP2C19	CYP2C9

REFERENCES

[1]. A W Herling, et al. Inhibition of 14C-aminopyrine accumulation in isolated rabbit gastric glands by the H2-receptor antagonist HOE 760 (TZU-0460). Agents Actions. 1987 Feb;20(1-2):35-9.

[2]. A Leucuta, et al. A pharmacokinetic interaction study between omeprazole and the H2-receptor antagonist ranitidine. Drug Metabol Drug Interact. 2004;20(4):273-81.

[3]. Antonio Francesco Ciccaglione, et al. Pylera® plus ranitidine vs Pylera® plus esomeprazole in first-line treatment of Helicobacter pylori infection: Two pilot studies. Helicobacter. 2019 Oct;24(5):e12606.

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