



LKT Laboratories, Inc.

Ranitidine Hydrochloride

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Product Information

Product ID R0253

CAS No. 66357-59-3

Chemical Name N-[2-[[[5-[(Dimethylamino)methyl]-2-furanyl]-methyl]thio]ethyl]-N'-methyl-2-nitro-1,1-ethenediamine

Synonym Azantac, Melfax, Noctone, Ranidil, Taural, Trigger, Ulcex, Zantac, Zantic

Formula C₁₃H₂₂N₄O₃S · HCl

Formula Wt. 350.86

Melting Point 133-134 °C

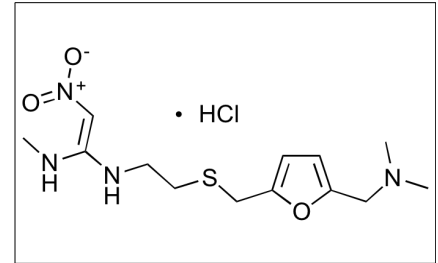
Purity ≥98%

Solubility Soluble in acetic acid, water and methanol. Slightly soluble in ethanol. Practically insoluble in chloroform.

Store Temp Ambient

Ship Temp Ambient

Description Ranitidine is an inverse agonist at H₂ histamine receptors, inducing receptor desensitization and inhibiting downstream signaling. Ranitidine displays antacid activity and is clinically used to treat peptic ulcer disease and gastroesophageal reflux disease (GERD).



Bulk quantities available upon request

Product ID	Size
R0253	1 g
R0253	5 g

References Alonso N, Monczor F, Echeverría E, et al. Signal transduction mechanism of biased ligands at histamine H₂ receptors. *Biochem J.* 2014 Apr 1;459(1):117-26. PMID: 24417223.

Rodriguez-Stanley S, Ciociola AA, Zubaidi S, et al. A single dose of ranitidine 150 mg modulates oesophageal acid sensitivity in patients with functional heartburn. *Aliment Pharmacol Ther.* 2004 Nov 1;20(9):975-82. PMID: 15521845.

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