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DATASHEET

Ranitidine hydrochloride

Product overview

Name	Ranitidine hydrochloride
Cat No	HB2630
Biological action	Antagonist
Purity	>99%
Description	Potent, selective, competitive H ₂ receptor antagonist

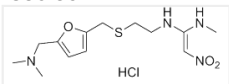
Biological Data

Biological description	Potent, selective and competitive H ₂ receptor antagonist ($K_i = 0.14 \mu\text{M}$). Decreases the secretion of gastric acid and pepsin. Shows antioxidant, antinociceptive and hepatoprotective actions.
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Solubility & Handling

Solubility overview	Soluble in water (50 mM)
Storage instructions	+4 °C (desiccate)
Storage of solutions	Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.
Shipping Conditions	Stable for ambient temperature shipping. Follow storage instructions on receipt.
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	<i>N</i> -[2-[[[5-[(Dimethylamino)methyl]-2-furanyl]methyl]thio]ethyl]- <i>N</i> -methyl-2-nitro-1,1-e thanediamine hydrochloride
Molecular Weight	350.86
Chemical structure	
Molecular Formula	C ₁₃ H ₂₂ N ₄ O ₃ S.HCl
CAS Number	66357-59-3
PubChem identifier	3033332
SMILES	CN/C(=C/[N+](=O)[O-])/NCCSCC1=CC=C(O1)CN(C)C.Cl
InChi	InChI=1S/C13H22N4O3S.ClH/c1-14-13(9-17(18)19)15-6-7-21-10-12-5-4-11(20-12)8-16(2)3;/h4-5,9,14-15H,6-8,10H2,1-3H3;1H/b13-9+;
InChiKey	GGWBHVILAJZWKJ-KJEVSKRMSA-N
MDL number	MFCD00069339