

Ranitidine-S-oxide

Chemical Properties

CAS No.:	73851-70-4
Formula:	C ₁₃ H ₂₂ N ₄ O ₄ S
Molecular Weight:	330.4
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Ranitidine-S-oxide is a metabolite of Ranitidine. It is commonly used in the treatment of peptic ulcer disease, Zollinger–Ellison syndrome, and gastroesophageal reflux disease.
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Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.027 mL	15.133 mL	30.266 mL
5 mM	0.605 mL	3.027 mL	6.053 mL
10 mM	0.303 mL	1.513 mL	3.027 mL
50 mM	0.061 mL	0.303 mL	0.605 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Kang JH, Chung WG, Lee KH, Park CS, Kang JS, Shin IC, Roh HK, Dong MS, Baek HM, Cha YN. Phenotypes of flavin-containing monooxygenase activity determined by ranitidine N-oxidation are positively correlated with genotypes of linked FM03 gene mutations in a Korean population. *Pharmacogenetics*. 2000 Feb;10(1):67-78. PubMed PMID: 10739174.
2. Viñas P, Campillo N, López-Erroz C, Hernández-Córdoba M. Use of post-column fluorescence derivatization to develop a liquid chromatographic assay for ranitidine and its metabolites in biological fluids. *J Chromatogr B Biomed Sci Appl*. 1997 Jun 6;693(2):443-9. PubMed PMID: 9210451.
3. Davies MH, Ngong JM, Pean A, Vickers CR, Waring RH, Elias E. Sulphoxidation and sulphation capacity in patients with primary biliary cirrhosis. *J Hepatol*. 1995 May;22(5):551-60. PubMed PMID: 7650336.
4. Cross DM, Bell JA, Wilson K. Kinetics of ranitidine metabolism in dog and rat isolated hepatocytes. *Xenobiotica*. 1995 Apr;25(4):367-75. PubMed PMID: 7645303.

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