Ranitidine S-oxide

Cat. No.: HY-W011245

CAS No.: 73851-70-4

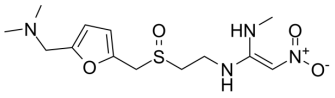
Molecular Formula: $C_{13}H_{22}N_4O_4S$

Molecular Weight: 330.4

Target: Drug Metabolite

Pathway: Metabolic Enzyme/Protease

Storage: -20°C, protect from light, stored under nitrogen
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

H_2O : 125 mg/mL (378.33 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	3.0266 mL	15.1332 mL	30.2663 mL
	5 mM	0.6053 mL	3.0266 mL	6.0533 mL
	10 mM	0.3027 mL	1.5133 mL	3.0266 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Ranitidine S-oxide is the metabolite of Ranitidine (HY-B0693). Ranitidine is a potent, selective and orally active histamine H2-receptor antagonist with an IC_{50} of 3.3 μM that inhibits gastric secretion[1][2].

REFERENCES

[1]. Cross DM, et al. Kinetics of ranitidine metabolism in dog and rat isolated hepatocytes. Xenobiotica. 1995 Apr;25(4):367-75.

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

Caution: Product has not been fully validated for medical applications. For research use only.

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