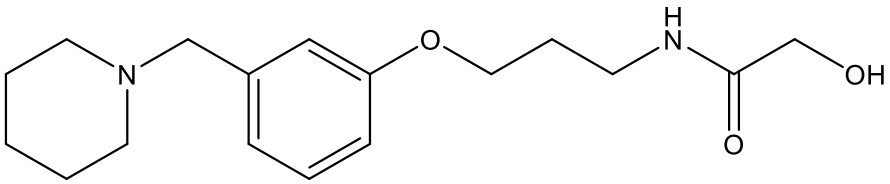
Catalog # 10-5046

Roxatidine

CAS# 78273-80-0

2-hydroxy-N-(3-(3-(piperidin-1-ylmethyl)phenoxy)propyl)acetamide

Lot # S105168



A novel histamine H2 receptor antagonist.[1] Suppresses inflammatory responses via inhibition of NFκB and p38 MAPK activation in LPS-induced RAW 264.7 macrophages.[2] Clinically useful agent for prevention and healing of gastric and duodenal ulcers and bleeding.[3] Attenuates degradation of extracellular matrix in osteoarthritis models by inactivating the NFκB pathway.[4]

1) Mills and Wood (1989), *The pharmacology of histamine H2-receptor antagonists*; Methods Find. Exp. Clin. Pharmacol., **11 Suppl. 1** 87
2) Cho *et al*. (2011), *Roxatidine suppresses inflammatory responses via inhibition of NF-κB and p38 MAPK activation in LPS-induced RAW 264.7 macrophages*; J. Cell. Biochem., **112** 3648
3) Imaeda *et al*. (2011), *Effect of lansoprazole versus roxatidine on prevention of bleeding and promotion of ulcer healing after endoscopic submucosal dissection for superficial gastric neoplasia*; J. Gastroenterol., **46** 1267
4) Ze *et al*. (2017), *Roxatidine Attenuates Degradation of Extracellular Matrix*; Biomed. Pharmacother., **95** 1156

PHYSICAL DATA

Molecular Weight:	306.40
Molecular Formula:	$C_{17}H_{26}N_2O_3$
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml)
Physical Description:	Colorless or pale yellow oil
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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