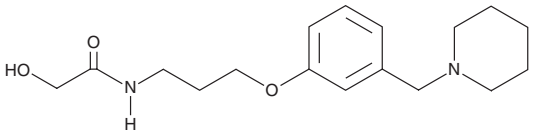
PRODUCT INFORMATION

Roxatidine

Item No. 36111

CAS Registry No.:	78273-80-0
Formal Name:	2-hydroxy-N-[3-[3-(1-piperidinylmethyl) phenoxy]propyl]-acetamide
MF:	$C_{17}H_{26}N_2O_3$
FW:	306.4
Purity:	≥95%
Supplied as:	A neat oil
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Roxatidine is supplied as a neat oil. A stock solution may be made by dissolving the roxatidine in the solvent of choice, which should be purged with an inert gas. Roxatidine is soluble in the organic solvent DMSO at a concentration of up to 25 mg/ml.

Description

Roxatidine is a histamine H_2 receptor antagonist and major active metabolite of roxatidine acetate (Item No. 21248).[1] Roxatidine reduces histamine-induced adenylate cyclase production in guinea pig parietal cells (IC_{50} = 0.8 µM). It inhibits histamine-induced hydrogen ion accumulation in the same cells (pA_2= 7.03). Roxatidine (200 mg/kg) reduces small intestinal lesion area in a rat model of gastric mucosal injury induced by indomethacin (Item No. 70270).[2]

References

1. Sewing, K.-F., Beil, W., and Hannemann, H. Comparative pharmacology of histamine H_2-receptor antagonists. *Drugs* **35(Suppl. 3)**, 25-29 (1988).
2. Umegaki, E., Yoda, Y., Tokioka, S., *et al.* Protective effect of roxatidine against indomethacin induced small intestinal mucosal injury in rats. *J. Gastroenterol. Hepatol.* **25(Suppl. 1)**, S35-S40 (2010).

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