Roxatidine Acetate (hydrochloride)

Item No. 21248

CAS Registry No.: 93793-83-0
Formal Name: 2-(acetyloxy)-N-[3-[3-(1-piperidinylmethyl)phenoxy]propyl]-acetamide, monohydrochloride
Synonyms: HOE 760, TZU-0460
MF: C_{19}H_{28}N_{2}O_{4} • HCl
FW: 384.9
Purity: ≥98%
UV/Vis.: λ_{max} = 223, 277 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly

Laboratory Procedures

Roxatidine acetate (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the roxatidine acetate (hydrochloride) in the solvent of choice. Roxatidine acetate (hydrochloride) is soluble in organic solvents such as ethanol and DMSO. It is also soluble in water. The solubility of roxatidine acetate (hydrochloride) in ethanol, DMSO, and water is approximately 12, 78, and 77 mg/ml, respectively. We do not recommend storing the aqueous solution for more than one day.

Description

Roxatidine acetate is a competitive histamine H_{2} receptor antagonist that upon oral absorption is rapidly converted to its active metabolite roxatidine.\(^{1}\) By inhibiting the binding of histamine to H_{2} receptors, roxatidine reduces both intracellular cAMP concentrations and gastric acid secretion by parietal cells.\(^{1}\)

Reference


\(^{1}\) Data from reference 1.