Meclizine (hydrochloride)

Item No. 14615

CAS Registry No.: 1104-22-9
Formal Name: 1-[(4-chlorophenyl)phenylmethyl]-4-[(3-methylphenyl)methyl]-piperazine, dihydrochloride

Synonyms: Meclazine, NSC 28728
MF: C_{25}H_{27}ClN_{2} \cdot 2HCl
FW: 463.9
Purity: ≥98%
UV/Vis.: λ_{max}: 229 nm

Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥4 years

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

Laboratory Procedures

Meclizine (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the Meclizine (hydrochloride) in the solvent of choice, which should be purged with an inert gas. Meclizine (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of Meclizine (hydrochloride) in these solvents is approximately 0.11, 0.17, and 5 mg/ml, respectively.

Description

Meclizine is a histamine H_1 receptor antagonist (K_i = 250 nM). Pretreatment with meclizine (2.5-30 mg/kg, i.p.) reduces ovalbumin-induced mast cell degranulation, edema, and leukocyte influx in rat lung. Formulations containing meclizine have been used in the treatment of motion sickness and vertigo.

References