



Product Information

Clemastine fumarate

Cat. No.: X23-12-YM440

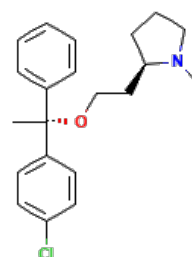
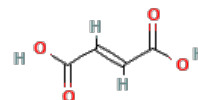
Size: 100 mg; 250 mg; 500 mg; 1000 mg

CAS Number: 14976-57-9

PubChem CID: 5281069

Synonym: 14976-57-9; Mecclastin

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	Clemastine fumarate, soluble in DMSO and insoluble in water and ethanol, inhibits the signaling pathway between G-protein-coupled receptors (GPCRs) and G proteins. It targets histamine H1 receptor.
Molecular Weight	459.96
Molecular Formula	C ₂₁ H ₂₆ ClNO·C ₄ H ₄ O ₄
Targets	Histamine H1 receptor: 3 nM
IUPAC Name	(E)-But-2-enedioic acid;(2R)-2-[2-[(1R)-1-(4-chlorophenyl)-1-phenylethoxy]ethyl]-1-methylpyrrolidine
InChI	InChI=1S/C21H26ClNO.C4H4O4/c1-21(17-7-4-3-5-8-17, 18-10-12-19(22)13-11-18)24-16-14-20-9-6-15-23(20)2;5-3(6)1-2-4(7)8/h3-5, 7-8, 10-13, 20H, 6, 9, 14-16H2, 1-2H3;1-2H, (H, 5, 6)(H, 7, 8)/b;2-1+/t20-, 21-;/m1./s1
InChI Key	PMGQWSIVQFOFOQ-YKVZVUFRSA-N
Canonical SMILES	CC(C1=CC=CC=C1)(C2=CC=C(C=C2)Cl)OCCC3CCCN3C.C(=CC(=O)O)C(=O)O
Isomeric SMILES	C[C@@](C1=CC=CC=C1)(C2=CC=C(C=C2)Cl)OCC[C@H]3CCCN3C.C(=C/C(=O)O)\C(=O)O
Form	Lyophilized powder
Purity	>98%
Solubility	DMSO: 31 mg/mL (67.39 mM); Water: insoluble; Ethanol: insoluble
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
Applications	Clemastine fumarate can be used to alleviate symptoms of allergic conjunctivitis, which is inflammation of the conjunctiva.



Storage

Store at -20°C, and keep desiccated.
