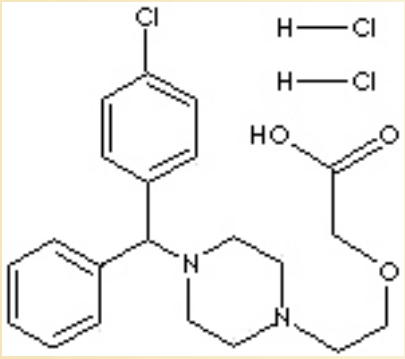
Cetirizine dihydrochloride (Cas No 83881-51-1)



Cetirizine dihydrochloride

CAS NO. 83881-51-1

Chemical Formulas

CAS NO. 83881-51-1 (Base)

FORMULA C21H23ClN2O3·2HCl MOL WT. 461.82

SYNONYMS (1S.2S)-2-Methylamino-1-phenyl-1-propanol dichloride;

PHYSICAL AND CHEMICAL PROPERTIES PHYSICAL STATE white to off-white crystalline powder

MELTING POINT BOILING POINT

SPECIFIC GRAVITY

SOLUBILITY IN WATER Soluble (Insoluble in acetone)

Cetirizine dihydrochloride is an antihistamine widely used in the relief of hayfever and other allergies, the usual dosage is a single tablet containing 10 mg taken once a day by persons over the age of twelve - some sources advise cetirizine dihydrochloride is safe for children over the age of six. Cetirizine dihydrochloride should not be taken by pregnant or breast-feeding women, and can cause drowsiness, dizziness, agitation, stomach upset and intestinal pain

Effects of cetirizine dihydrochloride on human lymphocytes in vitro: micronucleus induction. Evaluation of clastogenic and aneugenic potential using CREST and FISH assays.

This medicine contains the active ingredient cetirizine, which is a type of medicine called a non-sedating antihistamine. It works by preventing the actions of histamine.

All this results in the symptoms of an allergic reaction. In hayfever, histamine causes inflammation of the nose, eyes, skin or airways and results in itchy watery eyes, a runny nose, sneezing and nasal congestion.

The released histamine then binds to its receptors (H1 receptors), causing a chain reaction that results in allergic symptoms. It causes an increase in blood flow to the area of the allergy, and the release of other chemicals that add to the allergic response.