Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Betahistine (dihydrochloride)

Catalog No: tcsc2744

Available Sizes

Size: 1g

Size: 5g

Size: 10g

Specifications

CAS No:
5579-84-0

Formula:
$C_8H_{14}Cl_2N_2$

Pathway:
Immunology/Inflammation;GPCR/G Protein

Target:
Histamine Receptor;Histamine Receptor

Purity / Grade:
>98%

Solubility:
H2O : ≥ 50 mg/mL (239.10 mM); DMSO : 33.33 mg/mL (159.38 mM; Need ultrasonic)

Observed Molecular Weight:
209.12

Product Description

Betahistine Dihydrochloride is a histamine H3 receptors inhibitor used as an antivertigo drug.

Target: Histamine Receptor

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Betahistine, a structural analogue of histamine with weak histamine H(1) receptor agonist and more potent H(3) receptor antagonist properties. Betahistine acts centrally by enhancing histamine synthesis within tuberomammillary nuclei of the posterior hypothalamus and histamine release within vestibular nuclei through antagonism of H(3) autoreceptors [1].

Therapeutic effects of betahistine in vestibular disorders result from its antagonist properties at histamine H(3) receptors (H(3)Rs). On inhibition of cAMP formation and [(3)H]arachidonic acid release, betahistine behaved as a nanomolar inverse agonist and a micromolar agonist. After acute oral administration, Betahistine increased t-MeHA levels with an ED(50) of 2 mg/kg, a rightward shift probably caused by almost complete first-pass metabolism. Therapeutic effects of betahistine result from an enhancement of histamine neuron activity induced by inverse agonism at H(3) autoreceptors [2].