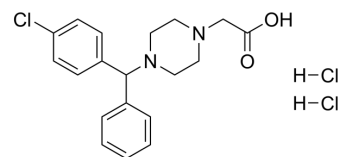


Cetirizine Impurity B dihydrochloride

Cat. No.:	HY-100660A
CAS No.:	1000690-91-4
Molecular Formula:	C ₁₉ H ₂₃ Cl ₃ N ₂ O ₂
Molecular Weight:	417.76
Target:	Drug Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (598.43 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		2.3937 mL	11.9686 mL	23.9372 mL
		5 mM		0.4787 mL	2.3937 mL	4.7874 mL
	10 mM		0.2394 mL	1.1969 mL	2.3937 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.98 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.98 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.98 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Cetirizine Impurity B dihydrochloride is an impurity of Cetirizine dihydrochloride. Cetirizine, a second-generation antihistamine, is a specific, orally active and long-acting histamine H1-receptor antagonist. Cetirizine marks antiallergic properties and inhibits eosinophil chemotaxis during the allergic response ^{[1][2][3]} .
--------------------	---

REFERENCES

[1]. Caroline M. Spencer, et al. Cetirizine. Drugs 46 (6): 1055-1080, 1993.

[2]. Shih MY, et al. Influence of cetirizine and levocetirizine on two cytokines secretion in human airway epithelial cells. Allergy Asthma Proc. 2008 Sep-Oct;29(5):480-5.

[3]. Shimizu T, et al. Cetirizine, an H1-receptor antagonist, suppresses the expression of macrophage migration inhibitory factor: its potential anti-inflammatory action. Clin Exp Allergy. 2004 Jan;34(1):103-9.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA