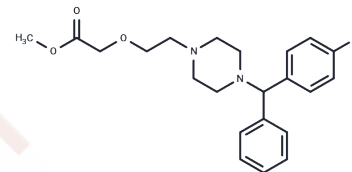


Cetirizine methyl ester

Chemical Properties

CAS No. :	83881-46-3
Formula:	C ₂₂ H ₂₇ ClN ₂ O ₃
Molecular Weight:	402.91
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Cetirizine methyl ester is an impurity of the antihistamine Cetirizine that is commonly utilized in pharmaceutical quality control, stability studies, and mass spectrometry-based analysis of collision-induced dissociation (CID) pathways. Cetirizine is a specific, orally active, and long-acting histamine H ₁ -receptor antagonist.
Targets(IC ₅₀)	Others
In vitro	Cetirizine methyl ester was studied via ESI-Q-TOF MS to determine CID pathways and characteristic fragment ions of H ₁ -antihistamines [1].

Solubility Information

Solubility	DMSO: 80 mg/mL (198.56 mM), Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4819 mL	12.4097 mL	24.8194 mL
5 mM	0.4964 mL	2.4819 mL	4.9639 mL
10 mM	0.2482 mL	1.241 mL	2.4819 mL
50 mM	0.0496 mL	0.2482 mL	0.4964 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Wang HJ, Gu HX, Eijkelkamp N, Heijnen CJ, Kavelaars A. Low GRK2 Underlies Hyperalgesic Priming by Glial Cell-Derived Neurotrophic Factor. Front Pharmacol. 2018 Jun 5;9:592.

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