
Product Data Sheet

Product Name: Cetirizine D4

Cat. No.: GC67944

Chemical Properties

Cas. No. 1219803-84-5

Formula $C_{21}H_{21}D_4ClN_2O_3$

M.Wt 392.91

Solubility DMSO : 250 mg/mL (636.28 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

Cetirizine D4 is a deuterium labeled Cetirizine. Cetirizine, a second-generation antihistamine and the carboxylated metabolite of hydroxyzine, 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]}.

[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.

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