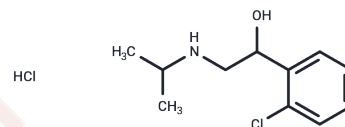


Clorprenaline hydrochloride

Chemical Properties

CAS No. :	6933-90-0
Formula:	C ₁₁ H ₁₇ Cl ₂ N ₂ O
Molecular Weight:	250.16
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	Clorprenaline hydrochloride (Clorprenaline HCl) is a beta-2 adrenergic agonist with bronchodilator activity.
Targets(IC50)	Adrenergic Receptor
In vitro	The linear ranges 8.0-1.6 ×10 ³ ng/mL for Clorprenaline in a single chromatographic run, the detection limits 3.0 ng/mL for Clorprenaline. [1] Clorprenaline is a bronchodilator that has been separated by CE based on affinity-interaction or with charged CD-CZE sulfobutylether (SBE)-β-CD or β-CD-phosphate with resolution greater than 1.2. Clorprenaline is separated in optimum condition of 60 mM HP-β-CD. [2] Clorprenaline hydrochloride (a), bromhexine hydrochloride (b) and declozine hydrochloride (c) are three main components in clorprenaline compound tablet. [3]
In vivo	In a single chromatographic run, the linear range of clorprenaline was 8.0-1.6 × 10 ³ ng/mL, with a limit of detection of 3.0 ng/mL.[1] Clorprenaline is a bronchodilator that has been separated by affinity-interaction-based CE or charged CD-CZE sulfobutyl ether (SBE)-β-CD or β-CD -phosphates at a resolution greater than 1.2. Clorprenaline was separated under optimal conditions at 60 mM HP-β-CD. [2] Clorprenaline hydrochloride, bromhexine hydrochloride, and deslorohydroxyzine hydrochloride are the three main ingredients of Clorprenaline compound tablets. [3]

Solubility Information

Solubility	Ethanol: 47 mg/mL (187.88 mM),Sonication is recommended. H ₂ O: 46 mg/mL (183.88 mM),Sonication is recommended. DMSO: 55 mg/mL (219.86 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (7.99 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9974 mL	19.9872 mL	39.9744 mL
5 mM	0.7995 mL	3.9974 mL	7.9949 mL
10 mM	0.3997 mL	1.9987 mL	3.9974 mL
50 mM	0.0799 mL	0.3997 mL	0.7995 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

Shen S, et al. J Pharm Biomed Anal, 2005, 38(1), 166-172.

Ren XQ, et al. Chromatographia, 1999, 49(7-8), 141-144.

Li QY, et al. Yao Xue Xue Bao, 1990, 25(5), 357-361.

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