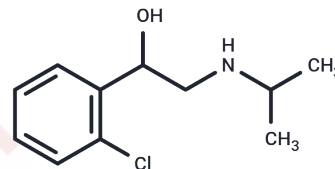


Clorprenaline

Chemical Properties

CAS No. :	3811-25-4
Formula:	C ₁₁ H ₁₆ ClNO
Molecular Weight:	213.7
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Clorprenaline is a β -adrenergic receptor agonist that activates adenylate cyclase and PKA and upregulates cAMP, leading to relaxation of bronchial smooth muscle cells, dilation of the airway, and improvement of airflow. Clorprenaline inhibits the release of mediators, such as histamine and leukotrienes, from mast cells, further promoting its anti-inflammatory properties.
Targets(IC50)	Adrenergic Receptor, Adenylate cyclase

Solubility Information

Solubility	DMSO: 110 mg/mL (514.74 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.6795 mL	23.3973 mL	46.7946 mL
5 mM	0.9359 mL	4.6795 mL	9.3589 mL
10 mM	0.4679 mL	2.3397 mL	4.6795 mL
50 mM	0.0936 mL	0.4679 mL	0.9359 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

Peng T, Zhang FS, Yang WC, Li DX, Chen Y, Xiong YH, Wei H, Lai WH. Lateral-flow assay for rapid quantitative detection of clorprenaline residue in swine urine. J Food Prot. 2014 Oct;77(10):1824-9.

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