Clorprenaline hydrochloride

Cat. No.: HY-B1347

CAS No.: 6933-90-0

Molecular Formula: $C_{11}H_{17}Cl_2NO$

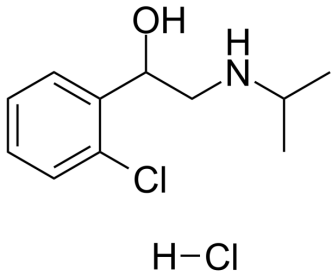
Molecular Weight: 250.16

Target: Adrenergic Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: 4°C, sealed storage, away from moisture

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (399.74 mM; Need ultrasonic)

H_2O : ≥ 100 mg/mL (399.74 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: PBS
   Solubility: 100 mg/mL (399.74 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (9.99 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (9.99 mM); Clear solution
4. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (9.99 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Clorprenaline hydrochloride is a β_2-adrenergic receptor agonist that is implicated in bronchial expansion. Clorprenaline has the potential for asthma research[1][2].

IC_{50} & Target

β_2-adrenergic receptor[1]

REFERENCES

[1]. Shao X, et al. Preparation of Fe2O3-Clorprenaline/Tetraphenylborate Nanospheres and Their Application as Ion Selective Electrode for Determination of Clorprenaline in Pork. Nanoscale Res Lett. 2016 Dec;11(1):178.

[2]. Shen S, et al. Determination of beta2-agonists by ion chromatography with direct conductivity detection. J Pharm Biomed Anal. 2005 Jun 1;38(1):166-72.

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