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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Etilefrine hydrochloride

Cat. No.: HY-A0144A

CAS No.: 943-17-9

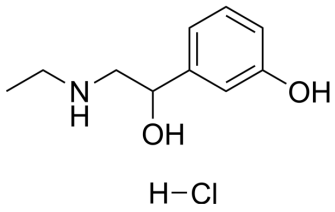
Molecular Formula: $C_{10}H_{16}ClNO_2$

Molecular Weight: 217.69

Target: AMPK; Adrenergic Receptor

Pathway: Epigenetics; PI3K/Akt/mTOR; 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 (459.37 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	4.5937 mL	22.9684 mL	45.9369 mL
5 mM	0.9187 mL	4.5937 mL	9.1874 mL
10 mM	0.4594 mL	2.2968 mL	4.5937 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (11.48 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (11.48 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (11.48 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Etilefrine hydrochloride is an orally active α adrenergic agonist. Etilefrine hydrochloride is also an AMPK activator. Etilefrine hydrochloride can be used for the research of postural hypotension[1][2][3][4].

REFERENCES

[1]. Sylvain Tollis, et al. Chemical Interrogation of Nuclear Size Identifies Compounds with Cancer Cell Line-Specific Effects on Migration and Invasion. ACS Chem Biol. 2022 Feb 24.

[2]. Chi Xu, et al. Accurate Drug Repositioning through Non-tissue-Specific Core Signatures from Cancer Transcriptomes. Cell Rep. 2018 Oct 9;25(2):523-535.e5.

[3]. R Yamazaki, et al. Effects of dihydroergotamine and Etilefrine on experimentally-induced postural hypotension in dogs. J Pharmacobiodyn. 1990 Sep;13(9):519-24.

[4]. Bouaggad A, et al. The effect of oral etilefrine premedication on the incidence of hypotension during spinal anaesthesia. Eur J Anaesthesiol. 2000 Mar;17(3):177-81.

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