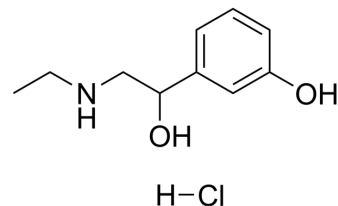


Etilefrine hydrochloride

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)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		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	<ol style="list-style-type: none"> 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 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 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]} .
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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.

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- [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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Caution: Product has not been fully validated for medical applications. For research use only.

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