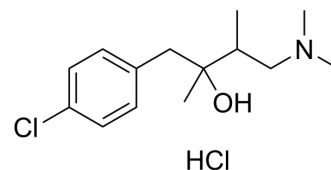


Clobutinol hydrochloride

Cat. No.:	HY-148144A
CAS No.:	1215-83-4
Molecular Formula:	C ₁₄ H ₂₃ Cl ₂ NO
Molecular Weight:	292.24
Target:	Potassium Channel
Pathway:	Membrane Transporter/Ion Channel
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 (342.18 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		3.4218 mL	17.1092 mL	34.2185 mL
		5 mM		0.6844 mL	3.4218 mL	6.8437 mL
10 mM		0.3422 mL	1.7109 mL	3.4218 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 (8.55 mM); Clear solution; Need ultrasonic 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (8.55 mM); Clear solution; Need ultrasonic 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (8.55 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	Clobutinol hydrochloride is a compound that has anti-tussive effects. Clobutinol hydrochloride affects heart rate and blood pressure, it can be used for cough related research ^{[1][2][3]} .
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REFERENCES

- [1]. Deisemann H, et al. Effects of common antitussive drugs on the hERG potassium channel current. J Cardiovasc Pharmacol. 2008 Dec;52(6):494-9.
- [2]. Salonen RO. Comparison of the effects of two opioid antitussives, vadocaine hydrochloride, clobutinol and lidocaine on lung mechanics in guinea-pigs.

Arzneimittelforschung. 1988 Apr;38(4A):609-12.

[3]. Takahara A, et al. Clobutinol delays ventricular repolarization in the guinea pig heart: comparison with cardiac effects of HERG K⁺ channel inhibitor E-4031. J Cardiovasc Pharmacol. 2009 Dec;54(6):552-9.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA