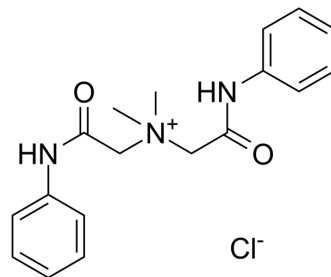


Carcainium chloride

Cat. No.:	HY-106372A
CAS No.:	1042-42-8
Molecular Formula:	C ₁₈ H ₂₂ ClN ₃ O ₂
Molecular Weight:	347.84
Target:	Others
Pathway:	Others
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 33.33 mg/mL (95.82 mM); ultrasonic and warming and heat to 60°C				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.8749 mL	14.3744 mL	28.7488 mL
		5 mM	0.5750 mL	2.8749 mL	5.7498 mL
		10 mM	0.2875 mL	1.4374 mL	2.8749 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: ≥ 0.83 mg/mL (2.39 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 0.83 mg/mL (2.39 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Carcainium chloride (QX 572) is a quaternary derivative of Lidocaine. Antitussive effect ^{[1][2]} .
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REFERENCES

[1]. Lavorini F, et al. Antitussive effect of carcainium chloride in patients with chronic cough and idiopathic interstitial pneumonias: A pilot study. *Pulm Pharmacol Ther.* 2016 Oct;40:91-4.

[2]. Adcock JJ, et al. RSD931, a novel anti-tussive agent acting on airway sensory nerves. *Br J Pharmacol.* 2003 Feb;138(3):407-16.

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

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