Pilsicainide hydrochloride

Cat. No.:	HY-101245	
CAS No.:	88069-49-2	0
Molecular Formula:	C ₁₇ H ₂₅ ClN ₂ O	ŭ II
Molecular Weight:	308.85	$\sim N^{\sim}$
Target:	Sodium Channel	H
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 : 50 mg/mL (1	DMSO : 50 mg/mL (161.89 mM; Need ultrasonic)				
		Solvent Mass Concentration	1 mg	5 mg	10 mg	
	Preparing Stock Solutions	1 mM	3.2378 mL	16.1891 mL	32.3782 mL	
	Stock Solutions	5 mM	0.6476 mL	3.2378 mL	.2378 mL 6.4756 mL	
		10 mM	0.3238 mL	1.6189 mL	3.2378 mL	
	Please refer to the so	plubility information to select the app	propriate solvent.			

BIOLOGICAL ACTIV	ТҮ ————	
Description	Pilsicainide hydrochloride (S ^[2] .	UN-1165) is an orally active sodium channel blocker and potent class Ic antiarrhythmic agent $^{[1]}$
In Vitro	Pilsicainide hydrochloride (SUN-1165) (10-200 μ g/mL) decreases peak amplitude of the net inward current in a dose- dependent manner with an IC ₅₀ of 29.2 ± 22.9 μ g/mL in levo-thyroxine (T ₄)-treated rat atrial cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	Pilsicainide hydrochloride (S decreasing the Max dV/dt and MCE has not independently o Animal Model:	UN-1165) (2 mg/kg; i.v.; once) decreases the conduction velocity in T ₄ -treated rat atrium by d net inward current ^[1] . confirmed the accuracy of these methods. They are for reference only. Male Sprague-Dawley (SD) rats weighing from 200 to 220 g, with levo-thyroxine (T ₄) treatment ^[1]
	Dosage:	2 mg/kg

Administration:	Bolus injection into right external carotid vein within 2 minutes, once
Result:	Result: the QT interval was significantly elongated at 15 and 60 minutes after administration. P wave and QRS complex durations were significantly shortened. Markedly decreased action potential amplitudes (APA) and Max dV/dt, and significantly lengthened the action potential durations.

REFERENCES

[1]. Yamakawa M, et al. Effect of sodium channel blocker, pilsicainide hydrochloride, on net inward current of atrial myocytes in thyroid hormone toxicosis rats. Thyroid. 2005 Jul;15(7):653-9.

[2]. Plosker GL. Pilsicainide. Drugs. 2010 Mar 5;70(4):455-67.

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

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