## Pilsicainide

**MedChemExpress** 

Cat. No.:	HY-133715	
CAS No.:	88069-67-4	$\sim N$
Molecular Formula:	C <sub>17</sub> H <sub>24</sub> N <sub>2</sub> O	
Molecular Weight:	272.39	$\sim$   $\sim$ H
Target:	Sodium Channel	
Pathway:	Membrane Transporter/Ion Channel	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	0

**Product** Data Sheet

Pilsicainide (SUN 1165 free acid) is a potent sodium channel blocker and potent class Ic antiarrhythmic agent <sup>[1][2]</sup> .			
Pilsicainide (SUN 1165 free acid; 10-200 μg/mL) decreases peak amplitude of the net inward current in a dose-dependent manner with an IC <sub>50</sub> of 29.2 μg/mL in levo-thyroxine (T <sub>4</sub> )-treated rat atrial cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
Pilsicainide (SUN 1165 free acid; 2 mg/kg; i.v.; once) decreases the conduction velocity in T <sub>4</sub> -treated rat atrium by decreasing the Max dV/dt and net inward current <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
Animal Model:	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:	Elongated the QT interval at 15 and 60 minutes after administration. Shortened P wave and QRS complex durations. Markedly decreased action potential amplitudes (APA) and Max dV/dt, and significantly lengthened the action potential durations.		
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## 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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