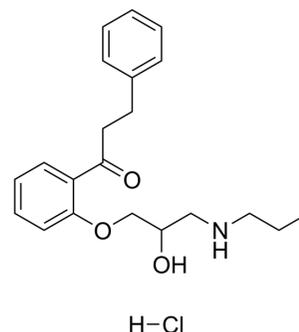


## Propafenone hydrochloride

<b>Cat. No.:</b>	HY-B0432A
<b>CAS No.:</b>	34183-22-7
<b>Molecular Formula:</b>	C <sub>21</sub> H <sub>28</sub> ClNO <sub>3</sub>
<b>Molecular Weight:</b>	377.9
<b>Target:</b>	Sodium Channel
<b>Pathway:</b>	Membrane Transporter/Ion Channel
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 33.33 mg/mL (88.20 mM; Need ultrasonic)					
	H <sub>2</sub> O : 0.67 mg/mL (1.77 mM; Need ultrasonic)					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		2.6462 mL	13.2310 mL	26.4620 mL
<b>5 mM</b>			0.5292 mL	2.6462 mL	5.2924 mL	
	<b>10 mM</b>		0.2646 mL	1.3231 mL	2.6462 mL	
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.62 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.62 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.62 mM); Clear solution					

### BIOLOGICAL ACTIVITY

<b>Description</b>	Propafenone (hydrochloride) (SA-79 (hydrochloride)) is a class of anti-arrhythmic medication, which treats illnesses associated with rapid heart beats such as atrial and ventricular arrhythmias.
<b>IC<sub>50</sub> &amp; Target</b>	Sodium Channel <sup>[1]</sup> .
<b>In Vivo</b>	Propafenone (hydrochloride) (SA-79 (hydrochloride)) is a classic anti-arrhythmic medication, which treats illnesses associated with rapid heartbeats such as atrial and ventricular arrhythmias. According to the Allergic Rhinitis and its Impact on Asthma (ARIA) treatment guidelines, intranasal anti-histamines are recommended for the first line therapy of mild

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intermittent, moderate/severe intermittent and mild persistent rhinitis (new classification system for rhinitis). Propafenone works by slowing the influx of sodium ions into the cardiac muscle cells, causing a decrease in excitability of the cells. Propafenone is more selective for cells with a high rate, but also blocks normal cells more than class Ia or Ib. Propafenone differs from the prototypical class Ic antiarrhythmic in that it has additional activity as a beta-adrenergic blocker which can cause bradycardia and bronchospasm<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. <http://en.wikipedia.org/wiki/Propafenone>

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

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