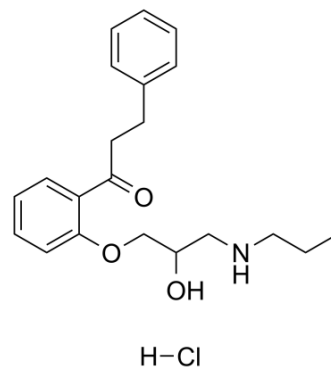


## Propafenone hydrochloride

<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>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 33.33 mg/mL (88.20 mM; Need ultrasonic)  
 H<sub>2</sub>O : 0.67 mg/mL (1.77 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.6462 mL	13.2310 mL	26.4620 mL
	5 mM	0.5292 mL	2.6462 mL	5.2924 mL
	10 mM	0.2646 mL	1.3231 mL	2.6462 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- 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
- 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
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
 Solubility: ≥ 2.5 mg/mL (6.62 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

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.

#### IC<sub>50</sub> & Target

Sodium Channel<sup>[1]</sup>.

#### In Vivo

Propafenone (hydrochloride) (SA-79 (hydrochloride)) is a classic anti-arrhythmic medication, which treats illnesses

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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 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.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

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