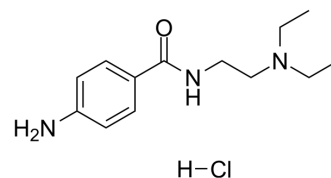


## Procainamide hydrochloride

<b>Cat. No.:</b>	HY-A0084
<b>CAS No.:</b>	614-39-1
<b>Molecular Formula:</b>	C <sub>13</sub> H <sub>22</sub> ClN <sub>3</sub> O
<b>Molecular Weight:</b>	271.79
<b>Target:</b>	Autophagy
<b>Pathway:</b>	Autophagy
<b>Storage:</b>	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : ≥ 50 mg/mL (183.97 mM)  
 DMSO : 50 mg/mL (183.97 mM; Need ultrasonic)  
 \* "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.6793 mL	18.3966 mL	36.7931 mL
	5 mM	0.7359 mL	3.6793 mL	7.3586 mL
	10 mM	0.3679 mL	1.8397 mL	3.6793 mL

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

#### In Vivo

- Add each solvent one by one: PBS  
Solubility: 120 mg/mL (441.52 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 3.25 mg/mL (11.96 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 3.25 mg/mL (11.96 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 3.25 mg/mL (11.96 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Procainamide hydrochloride is an anti-arrhythmic agent and is used to treat cardiac arrhythmia; induces rapid block of the batrachotoxin(BTX)-activated sodium channels of the heart muscle and acts as antagonist to long gating closures.

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## CUSTOMER VALIDATION

- Clin Chem. 2019 Dec;65(12):1522-1531.
- Environ Pollut. 2023 May 31;121931.
- Patent. US20180263995A1.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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## REFERENCES

[1]. Zamponi GW, et al. Dual actions of procainamide on batrachotoxin-activated sodium channels: open channel block and prevention of inactivation. Biophys J. 1993 Dec;65(6):2324-34.

[2]. <http://en.wikipedia.org/wiki/Procainamid>

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

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