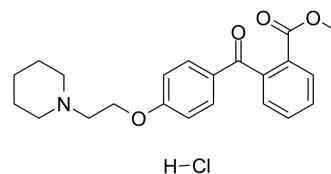


## Pitofenone hydrochloride

<b>Cat. No.:</b>	HY-110389
<b>CAS No.:</b>	1248-42-6
<b>Molecular Formula:</b>	C <sub>22</sub> H <sub>26</sub> ClNO <sub>4</sub>
<b>Molecular Weight:</b>	403.9
<b>Target:</b>	Cholinesterase (ChE)
<b>Pathway:</b>	Neuronal Signaling
<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>	H <sub>2</sub> O : 100 mg/mL (247.59 mM; Need ultrasonic)					
	DMSO : 83.33 mg/mL (206.31 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>		2.4759 mL	12.3793 mL	24.7586 mL
<b>5 mM</b>			0.4952 mL	2.4759 mL	4.9517 mL	
	<b>10 mM</b>		0.2476 mL	1.2379 mL	2.4759 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: ≥ 1.67 mg/mL (4.13 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.67 mg/mL (4.13 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.67 mg/mL (4.13 mM); Clear solution					

### BIOLOGICAL ACTIVITY

<b>Description</b>	Pitofenone hydrochloride, a spasmolytic compound, inhibits the acetylcholinesterase (AChE) activity from bovine erythrocytes and from electric eel with K <sub>i</sub> s of 36 and 45 μM, respectively.
<b>IC<sub>50</sub> &amp; Target</b>	Ki: 36 μM (AChE, bovine erythrocytes), 45 μM (AChE, electric eel)

### REFERENCES

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

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