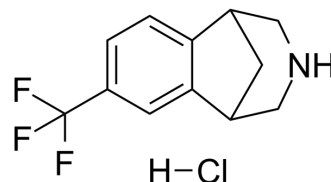


## (Rac)-CP-601927 hydrochloride

<b>Cat. No.:</b>	HY-138879A
<b>CAS No.:</b>	230615-01-7
<b>Molecular Formula:</b>	C <sub>12</sub> H <sub>13</sub> ClF <sub>3</sub> N
<b>Molecular Weight:</b>	263.69
<b>Target:</b>	nAChR
<b>Pathway:</b>	Membrane Transporter/Ion Channel; 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>	DMSO : 100 mg/mL (379.23 mM; Need ultrasonic)					
	H <sub>2</sub> O : 100 mg/mL (379.23 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>		3.7923 mL	18.9617 mL	37.9233 mL
<b>5 mM</b>			0.7585 mL	3.7923 mL	7.5847 mL	
	<b>10 mM</b>		0.3792 mL	1.8962 mL	3.7923 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 (9.48 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (9.48 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (9.48 mM); Clear solution					

### BIOLOGICAL ACTIVITY

<b>Description</b>	(Rac)-CP-601927 hydrochloride is the racemate of CP-601927. CP-601927 is a nAChR agonist with Ki values 1.2 nM and 102 nM for α4β2 and α3β4 nAChR, respectively <sup>[1]</sup> .
<b>In Vitro</b>	CP-601927 induces significant antidepressant-like effects in mice. CP-601927 could decrease cholinergic signaling as a result of its reduced efficacy or via desensitization of α4β2* nAChRs <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]. Yann S Mineur, et al.  $\alpha 4\beta 2$  nicotinic acetylcholine receptor partial agonists with low intrinsic efficacy have antidepressant-like properties. Behav Pharmacol. 2011 Aug;22(4):291-9.

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

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