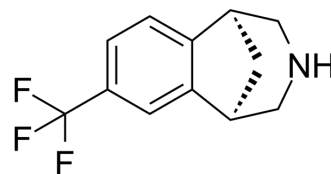


## CP-601932

<b>Cat. No.:</b>	HY-138879B		
<b>CAS No.:</b>	357425-68-4		
<b>Molecular Formula:</b>	C <sub>12</sub> H <sub>12</sub> F <sub>3</sub> N		
<b>Molecular Weight:</b>	227.23		
<b>Target:</b>	nAChR		
<b>Pathway:</b>	Membrane Transporter/Ion Channel; Neuronal Signaling		
<b>Storage:</b>	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 200 mg/mL (880.17 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	4.4008 mL	22.0041 mL	44.0083 mL
		5 mM	0.8802 mL	4.4008 mL	8.8017 mL
10 mM		0.4401 mL	2.2004 mL	4.4008 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: ≥ 5 mg/mL (22.00 mM); Clear solution  2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 5 mg/mL (22.00 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	<p>CP-601932 ((1S,5R)-CP-601927) is a high-affinity partial agonist at α3β4 nAChR (K<sub>i</sub>=21 nM; EC<sub>50</sub>~ 3 μM). CP-601932 has the same high-binding affinity at α4β2 nAChR (K<sub>i</sub>=21 nM) and an order of magnitude lower affinity for α6 and α7 nAChR subtypes. CP-601932 selectively decreases ethanol but not sucrose consumption and operant self-administration following long-term exposure. CP-601932 can penetrate the CNS<sup>[1]</sup>.</p>
<b>In Vivo</b>	<p>CP-601932 (10 mg/kg; s.c; adult male Sprague-Dawley rats) decreases active lever presses for 10% ethanol, but not 5% sucrose in the operant self-administration paradigm<sup>[1]</sup>.</p> <p>CP-601932 (adult male Sprague-Dawley rats) readily penetrates the CNS and at 30 min reaches maximal C<sub>b,u</sub> values of 340 nM after 5 mg/kg and 710 nM after 10 mg/kg. Brain concentrations of CP-601932 decline very slowly and levels stay relatively high, eg, 530 nM at 5 h and 85 nM at 24 h after 10 mg/kg<sup>[1]</sup>.</p>

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

## REFERENCES

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[1]. Chatterjee S, et al. Partial agonists of the  $\alpha 3\beta 4^*$  neuronal nicotinic acetylcholine receptor reduce ethanol consumption and seeking in rats. *Neuropsychopharmacology*. 2011;36(3):603-615.

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

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