CP-601927

Cat. No.: HY-138879

CAS No.: 357425-02-6

Molecular Formula: $C_{12}H_{12}F_3N$

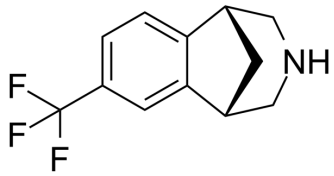
Molecular Weight: 227.23

Target: nAChR

Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling

Storage:

Pure form	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 200 mg/mL (880.17 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	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.

In Vivo

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% corn oil
   Solubility: ≥ 5 mg/mL (22.00 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

CP-601927 is a selective α4β2 nicotinic acetylcholine receptor (nAChR) partial agonist (K_i=1.2 nM; EC_{50}=2.6 μM). CP-601927 shows good brain penetration and antidepressant-like properties[1][2].

In Vivo

CP-601927 (0.125 mg/kg-1.5 mg/kg; i.p.; C57BL/6J male mice) has antidepressant-like activity in animal models[2].

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

REFERENCES

[1]. Campion SN, et al. Toxicity study in juvenile rats with the α4β2 nicotinic acetylcholine receptor partial agonist CP-601,927. Birth Defects Res B Dev Reprod Toxicol. 2011;92(4):323-332.

[2]. Mineur YS, et al. α4β2 nicotinic acetylcholine receptor partial agonists with low intrinsic efficacy have antidepressant-like properties. Behav Pharmacol. 2011;22(4):291-299.

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