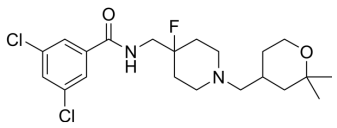
(Rac)-TTA-P2

Cat. No.:	HY-50707
CAS No.:	918430-49-6
Molecular Formula:	$C_{21}H_{29}Cl_2FN_2O_2$
Molecular Weight:	431.37
Target:	Others
Pathway:	Others
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (115.91 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.3182 mL	11.5910 mL	23.1820 mL
	5 mM	0.4636 mL	2.3182 mL	4.6364 mL
	10 mM	0.2318 mL	1.1591 mL	2.3182 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: ≥ 1 mg/mL (2.32 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 1 mg/mL (2.32 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 1 mg/mL (2.32 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(Rac)-TTA-P2 is the isomer of TTA-P2 (HY-10035), and can be used as an experimental control. TTA-P2 (T-Type calcium channel inhibitor) is a potent inhibitor of T-Type calcium channel. TTA-P2 penetrates well the CNS and blocks the native T-type currents in deep cerebellar nuclear neurons, the window current is completely abolished both for wild-type and mutant Cav3.1 channels. TTA-P2 has the potential for the research of neurology disease[1].

REFERENCES

[1]. M R Hellberg, et al. Preclinical efficacy of travoprost, a potent and selective FP prostaglandin receptor agonist. J Ocul Pharmacol Ther. 2001 Oct;17(5):421-32.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA