TTA-P2

Cat. No.: HY-10035

CAS No.: 1072018-68-8

Molecular Formula: $C_{21}H_{29}Cl_2FN_2O_2$

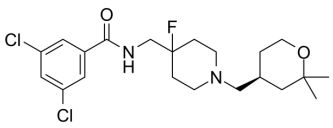
Molecular Weight: 431.37

Target: Calcium Channel

Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling

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 : 25 mg/mL (57.95 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / 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.

BIOLOGICAL ACTIVITY

Description

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]. Chemin J, et al. De novo mutation screening in childhood-onset cerebellar atrophy identifies gain-of-function mutations in the CACNA1G calcium channel gene. Brain. 2018;141(7):1998-2013.

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

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