Eliprodil

Cat. No.: HY-12881

CAS No.: 119431-25-3

Molecular Formula: $C_{20}H_{23}ClFNO$

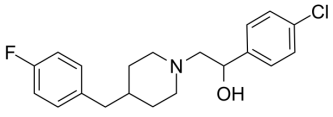
Molecular Weight: 347.85

Target: iGluR

Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 14.29 mg/mL (41.08 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.8748 mL	14.3740 mL	28.7480 mL
	5 mM	0.5750 mL	2.8748 mL	5.7496 mL
	10 mM	0.2875 mL	1.4374 mL	2.8748 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: 1.43 mg/mL (4.11 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 1.43 mg/mL (4.11 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Eliprodil(SL-820715) is a non-competitive NR2B-NMDA receptor antagonist(IC50=1 uM), less potent for NR2A- and NR2C-containing receptors(IC50> 100 uM).IC50 value:Target: NR2B-NMDA antagonistHuman N-type Ca2+ channel currents were inhibited by ifenprodil and eliprodil with IC50 values of 50 microM and 10 microM respectively whereas P-type Ca2+ channel currents were inhibited reversibly by ifenprodil and eliprodil with approximate IC50 values of 60 microM and 9 microM respectively. eliprodil (1 microm) produced a moderate reverse rate-dependent prolongation of the action potential duration (7.4+/-1.5, 8.9+/-2.1 and 9.9+/-1.8% at cycle lengths of 300, 1000 and 5000 ms, respectively; n=9).

REFERENCES

[1]. Bath CP, et al. The effects of ifenprodil and eliprodil on voltage-dependent Ca2+ channels and in gerbil global cerebral ischaemia. Eur J Pharmacol. 1996 Mar 28;299(1-3):103-12.

[2]. Lengyel C, et al. Effect of a neuroprotective drug, eliprodil on cardiac repolarisation: importance of the decreased repolarisation reserve in the development of proarrhythmic risk. Br J Pharmacol. 2004 Sep;143(1):152-8.

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