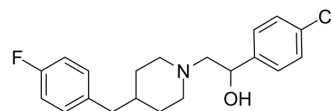


Eliprodil

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)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	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	<p>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).</p>
--------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

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.

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

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