

Product Data Sheet

Product Name: Eliprodil
Cat. No.: GC15343

Chemical Properties

Cas. No. 119431-25-3

Chemical Name (R)-1-(4-chlorophenyl)-2-(4-(4-fluorobenzyl)piperidin-1-yl)ethanol

SMILES C1C=CC=C(C=C1)[C@H](CN2CCC(CC(C=C3)=CC=C3F)CC2)O

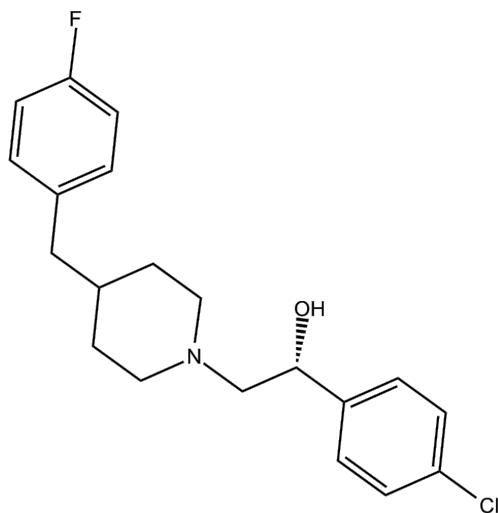
Formula $C_{20}H_{23}ClFNO$ M.Wt 347.86

Solubility DMF: 10mg/mL, DMSO: 2mg/mL, Ethanol: 2mg/mL
Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Eliprodil (SL-820715) is a non-competitive NR2B-NMDA receptor antagonist ($IC_{50}=1 \mu M$), less potent for NR2A- and NR2C-containing receptors ($IC_{50}> 100 \mu M$). IC_{50} value: Target: NR2B-NMDA antagonist. Human N-type Ca^{2+} channel currents were inhibited by ifenprodil and eliprodil with IC_{50}

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

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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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