Certificate of Analysis

Product Name: **Eliprodil** **Catalog No.: 2195** **Batch No.: 1**

CAS Number: 119431-25-3

IUPAC Name: α-(4-Chlorophenyl)-4-[(4-fluorophenyl)methyl]-1-piperidineethanol

1. PHYSICAL AND CHEMICAL PROPERTIES

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

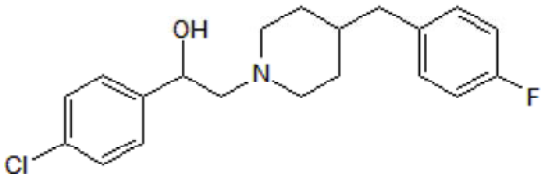
Batch Molecular Weight: 347.86

Physical Appearance: White crystalline solid

Solubility: DMSO to 25 mM

Storage: Desiccate at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.3 (Dichloromethane:Methanol [20:1])

Melting Point: Between 133 - 135°C

HPLC: Shows >99.3% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	69.06	6.66	4.03
Found	69	6.73	4.03

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Description:

Non-competitive NMDA receptor antagonist that acts at the polyamine modulatory site. Selective for GluN2B (formally NR2B)- over GluN2A (NR2A)- and GluN2C (NR2C)-containing receptors (IC_{50} values are 1, > 100 and > 100 μM respectively). Also σ_1 ligand (K_i = 0.013 μM). Antagonizes neuronal voltage-gated Ca^{2+} channels and selectively inhibits the rapid component of the delayed rectifier K^+ current (I_{Kr}). Neuroprotective. Please refer to IUPHAR Guide to Pharmacology for the most recent naming conventions. Please see product datasheet on www.tocris.com for full description.

Physical and Chemical Properties:

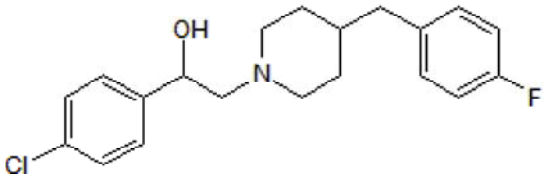
Batch Molecular Formula: $C_{20}H_{23}ClFNO$

Batch Molecular Weight: 347.86

Physical Appearance: White crystalline solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

DMSO to 25 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Lengyel *et al* (2004) Effect of a neuroprotective drug, eliprodil on cardiac repolarisation: importance of the decreased repolarisation reserve in the development of proarrhythmic risk. Br.J.Pharmacol. ***143*** 152. PMID: 15302678.

Whittemore *et al* (1997) Antagonism of N-methyl-D-aspartate receptors by σ site ligands: potency, subtype-selectivity and mechanisms of inhibition. J.Pharmacol.Exp.Ther. ***282*** 326. PMID: 9223571.

Bath *et al* (1996) The effects of ifenprodil and eliprodil on voltage-dependent Ca^{2+} channels and in gerbil global cerebral ischaemia. Eur.J.Pharmacol. ***299*** 103. PMID: 8901012.