**Overview**

**Product name**  Ifenprodil hemitartrate

**Description**  GluN2B (formerly NR2B)-preferring NMDA antagonist

**Biological description**  Non-competitive NMDA receptor antagonist acting at the polyamine site. Displays GluN2B (formerly NR2B) subunit selectivity. IC\textsubscript{50} values are 0.15 μM at NR1/NR2B and >30 μM for NR1/NR2A, NR1/NR2C and NR1/NR2D receptors.

Also available in simple stock solutions (ab146675) - add 1 ml of water to get an exact, ready-to-use concentration.

**Purity**  > 99%

**Properties**

**Chemical name**  erythro-4-(2-(4-Benzylpiperidin-1-yl)-1-hydroxypropyl)phenol hemitartrate

**Molecular weight**  400.49

**Chemical structure**

![Chemical structure of Ifenprodil hemitartrate](image)

**Molecular formula**  C\textsubscript{21}H\textsubscript{27}NO\textsubscript{2}.0.5C\textsubscript{4}H\textsubscript{6}O\textsubscript{6}

**CAS Number**  23210-58-4

**Storage instructions**  Store at +4°C. Store under desiccating conditions. The product can be stored for up to 12 months.

**Solubility overview**  Soluble in water to 15 mM and in DMSO to 100 mM

**Handling**  Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.

**Source**  Synthetic
Median ifenprodil sensitivity from a rat postnatal day 2 (P2) and day 12 (P12) neuron; NMDAR-mediated responses in control (black) and in presence of the GluN2B-preferring antagonist ifenprodil (ab120111, grey).

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE, NOT FOR USE IN HUMANS"

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