

**Product Name:** Ifenprodil hemitartrate

**Catalog No.:** 0545

**Batch No.:** 9

**IUPAC Name:** (1*R*\*,2*S*\*)-erythro-2-(4-Benzylpiperidino)-1-(4-hydroxyphenyl)-1-propanol hemi-(DL)-tartrate

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>21</sub>H<sub>27</sub>NO<sub>2</sub>·½C<sub>4</sub>H<sub>6</sub>O<sub>6</sub>·H<sub>2</sub>O

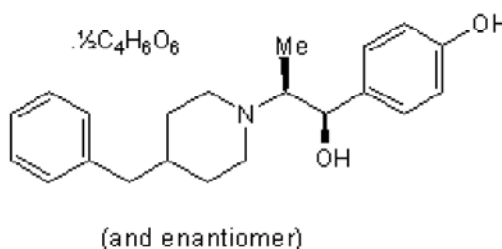
**Batch Molecular Weight:** 418.51

**Physical Appearance:** White solid

**Solubility:** water to 10 mM  
DMSO to 100 mM

**Storage:** Store at RT

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 100% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	66.01	7.71	3.35
Found	66.09	7.67	3.41

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

NMDA receptor antagonist, acting at the polyamine site. Also an  $\alpha$ -adrenergic vasodilator.  $\sigma_2$  ligand displaying about 3-fold selectivity over  $\sigma_1$  sites.

**Physical and Chemical Properties:**

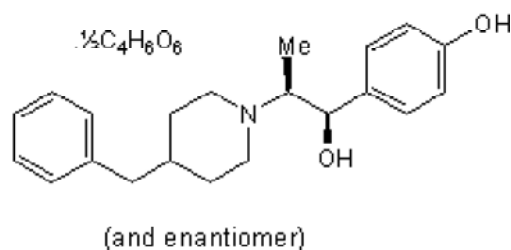
Batch Molecular Formula: C<sub>21</sub>H<sub>27</sub>NO<sub>2</sub>·½C<sub>4</sub>H<sub>6</sub>O<sub>6</sub>·H<sub>2</sub>O

Batch Molecular Weight: 418.51

Physical Appearance: White solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

water to 10 mM

DMSO to 100 mM

CAUTION - Solutions of this product in water are obtained by rapid stirring for at least 15 minutes; solubility in water can be enhanced by crushing the compound prior to dissolution. We recommend that heating is **not** used as a solubility aid as this adversely affects the solubility of the compound in water.

**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:**

**Shalaby et al** (1992) Neuroprotective effects of the N-MthD.-aspartate receptor antagonists ifenprodil and SL-82,0715 on hippocampal cells in culture. *J.Pharmacol.Exp.Ther.* **260** 925. PMID: 1346650.

**Schoemaker et al** (1990) Polyamine-sensitive binding of [<sup>3</sup>H]ifenprodil, a novel NMDA antagonist to the rat cerebral cortex. *Eur.J.Pharmacol.* **176** 249. PMID: 2178949.

**Reynolds and Miller** (1989) Ifenprodil is a novel type of N-MthD.-aspartate receptor antagonist: interaction with polyamines. *Mol.Pharmacol.* **36** 758. PMID: 2555674.

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