

**Product Name:** Ro 04-5595 hydrochloride

**Catalog No.:** 2005

**Batch No.:** 1

CAS Number: 64047-73-0

IUPAC Name: 1-[2-(4-Chlorophenyl)ethyl]-1,2,3,4-tetrahydro-6-methoxy-2-methyl-7-isoquinolinol hydrochloride

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>19</sub>H<sub>22</sub>ClNO<sub>2</sub>.HCl

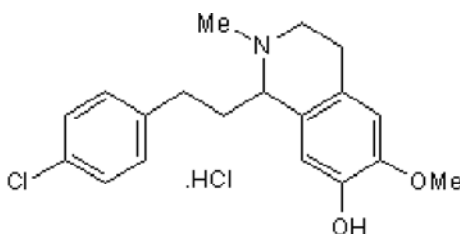
**Batch Molecular Weight:** 368.3

**Physical Appearance:** White solid

**Solubility:** water to 15 mM  
DMSO to 100 mM

**Storage:** Desiccate at +4°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.47 (Dichloromethane:Methanol [9:1])

**HPLC:** Shows >98.1% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	61.96	6.29	3.8
Found	62.26	6.38	3.57

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**Description:**

Selective antagonist for GluN2B (formally NR2B) containing NMDA receptors ( $K_i = 31$  nM). Please refer to IUPHAR Guide to Pharmacology for the most recent naming conventions.

**Physical and Chemical Properties:**

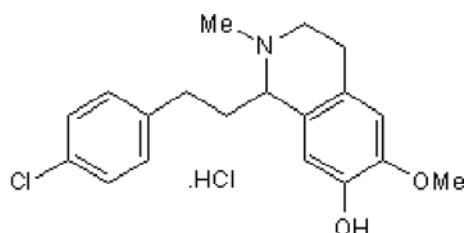
Batch Molecular Formula: C<sub>19</sub>H<sub>22</sub>ClNO<sub>2</sub>.HCl

Batch Molecular Weight: 368.3

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Desiccate at +4°C

**Solubility & Usage Info:**

water to 15 mM

DMSO to 100 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:**

Mutel *et al* (1998) In vitro binding properties in rat brain of [<sup>3</sup>H] Ro 25-6981, a potent and selective antagonist of NMDA receptors containing NR2B subunits. *J.Neurochem.* **70** 214.

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