

**Product Name:** Co 101244 hydrochloride

**Catalog No.:** 2456

**Batch No.:** 1

**CAS Number:** 193356-17-1

**IUPAC Name:** 1-[2-(4-Hydroxyphenoxy)ethyl]-4-[(4-methylphenyl)methyl]-4-piperidinol hydrochloride

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:**  $C_{21}H_{27}NO_3 \cdot HCl \cdot \frac{1}{4}H_2O$

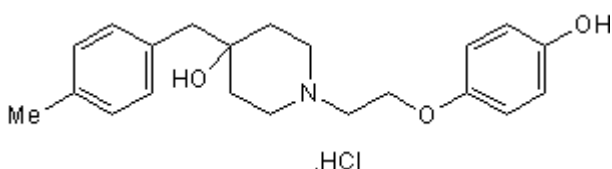
**Batch Molecular Weight:** 382.41

**Physical Appearance:** White solid

**Solubility:** water to 100 mM  
DMSO to 50 mM

**Storage:** Store at +4°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**TLC:**  $R_f = 0.21$  (Dichloromethane:Methanol [4:1])

**HPLC:** Shows >99.5% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon Hydrogen Nitrogen		
Theoretical	65.96	7.51	3.66
Found	66.25	7.53	3.59

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

Tocris Bioscience is an R&D Systems company  
USA & CANADA Tel: (800) 343-7475 EUROPE Tel: +44 (0)1235 529449 CHINA Tel: +86 (21) 52380373  
www.RnDSystems.com

**R&D**  
SYSTEMS®

**Product Name:** Co 101244 hydrochloride

**Catalog No.:** 2456

**Batch No.:** 1

**CAS Number:** 193356-17-1

**IUPAC Name:** 1-[2-(4-Hydroxyphenoxy)ethyl]-4-[(4-methylphenyl)methyl]-4-piperidinol hydrochloride

**Description:**

Novel, potent and selective antagonist of NR2B-containing NMDA receptors (IC<sub>50</sub> values are 0.043, > 100 and > 100 µM for NR1A/2B, NR1A/2A and NR1A/2C subunit combinations respectively). Displays neuroprotective effects in vivo and in vitro.

**Physical and Chemical Properties:**

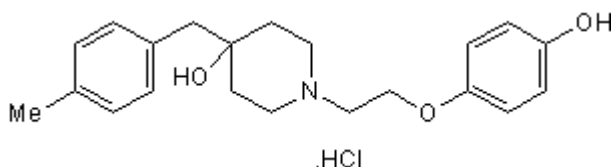
Batch Molecular Formula: C<sub>21</sub>H<sub>27</sub>NO<sub>3</sub>.HCl.¼H<sub>2</sub>O

Batch Molecular Weight: 382.41

Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

water to 100 mM

DMSO to 50 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:**

**Zhou et al** (1999) 4-Hydroxy-1-[2-(4-hydroxyphenoxy)ethyl]-4-(4-methylbenzyl)piperidine: a novel, potent, and selective NR1/2B NMDA receptor antagonist. *J.Med.Chem.* **42** 2993. PMID: 10425109.

**Gill et al** (2002) Pharmacological characterization of Ro 63-1908 (1-[2-(4-hydroxy-phenoxy)-ethyl]-4-(4-methyl-benzyl)-piperidin-4-ol), a novel subtype-selective *N*-methyl-D-aspartate antagonist. *J.Pharmacol.Exp.Ther.* **302** 940. PMID: 12183650.

**Higgins et al** (2003) Evaluation of the NR2B-selective NMDA receptor antagonist Ro 63-1908 on rodent behaviour: evidence for an involvement of NR2B NMDA receptors in response inhibition. *Neuropharmacology* **44** 324. PMID: 12604092.

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

Tocris Bioscience is an R&D Systems company  
USA & CANADA Tel: (800) 343-7475 EUROPE Tel: +44 (0)1235 529449 CHINA Tel: +86 (21) 52380373  
www.RnDSYSTEMS.com

**R&D**  
SYSTEMS®