Print Date: May 26th 2018

Certificate of Analysis

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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: $C_{21}H_{27}NO_3.HCl.¼H_2O$

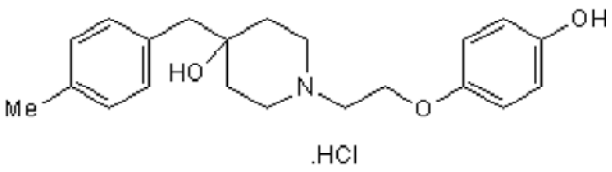
Batch Molecular Weight: 382.41

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

^{1}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

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Product Information

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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 GluN2B (formally NR2B)-containing NMDA receptors (IC_{50} values are 0.043, > 100 and > 100 µM for GluN1A/2B (NR1A/2B), GluN1A/2A (NR1A/2A) and GluN1A/2C (NR1A/2C) subunit combinations respectively). Displays neuroprotective effects in vivo and in vitro. Please refer to IUPHAR Guide to Pharmacology for the most recent naming conventions.

Physical and Chemical Properties:

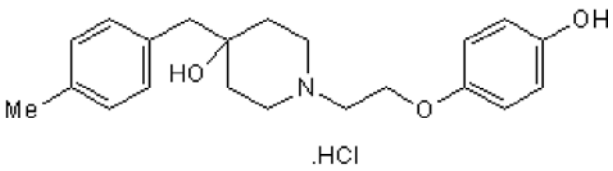
Batch Molecular Formula: $C_{21}H_{27}NO_3.HCl.¼H_2O$

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:

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.

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.

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.