

Product Name: Ro 8-4304 hydrochloride

Catalog No.: 3343

Batch No.: 1

CAS Number: 1312991-77-7

IUPAC Name: 4-[3-[4-(4-Fluorophenyl)-1,2,3,6-tetrahydro-1(2H)-pyridinyl]-2-hydroxypropoxy]benzamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₃FN₂O₃.HCl.½H₂O

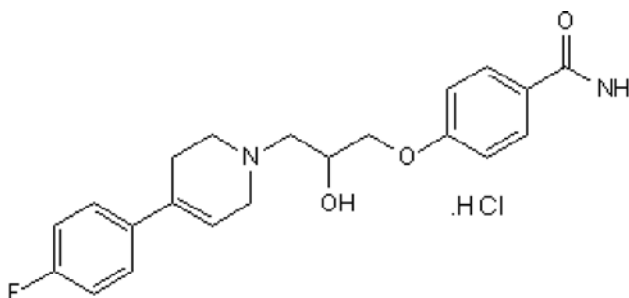
Batch Molecular Weight: 415.89

Physical Appearance: Off-white solid

Solubility: water to 10 mM
DMSO to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.56 (Dichloromethane:Methanol [9:1])

HPLC: Shows 99.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.65	6.06	6.74
Found	60.9	5.93	6.79

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Description:

NMDA receptor antagonist (IC₅₀ = 0.4 μM) that displays > 100 fold selectivity for GluN2B (formally NR2B) containing receptors over GluN2A (formally NR2A) containing receptors. Exhibits an activity-dependent mechanism of NMDA antagonism and is competitive with respect to spermine (Cat. No. 0958). Please refer to IUPHAR Guide to Pharmacology for the most recent naming conventions.

Physical and Chemical Properties:

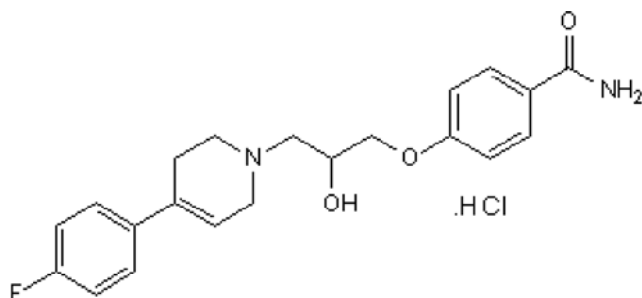
Batch Molecular Formula: C₂₁H₂₃FN₂O₃.HCl.½H₂O

Batch Molecular Weight: 415.89

Physical Appearance: Off-white solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 10 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:

Kew et al (1998) State-dependent NMDA receptor antagonism by Ro 8-4304, a novel NR2B selective, non-competitive, voltage-independent antagonist. *Br.J.Pharmacol.* **123** 463. PMID: 9504387.

Kew and Kemp (1998) An allosteric interaction between the NMDA receptor polyamine and ifenprodil sites in rat cultured cortical neurones. *J.Physiol.* **512** 17. PMID: 9729614.

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