

Certificate of Analysis

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Product Name: L-701,324

Catalog No.: 0907

Batch No.: 4

CAS Number: 142326-59-8

IUPAC Name: 7-Chloro-4-hydroxy-3-(3-phenoxy)phenyl-2(1*H*)-quinolinone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₁₄ClNO₃·¼H₂O

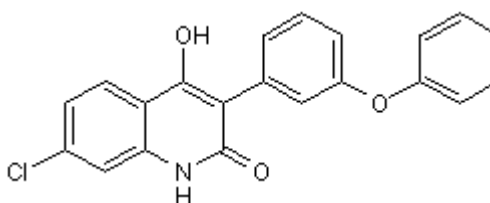
Batch Molecular Weight: 368.3

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.69 (Ethyl acetate)

HPLC: Shows 99.9% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	68.48	3.97	3.8
Found	68.46	3.86	3.81

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

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Description:

An orally active and long acting anticonvulsant with high affinity and selectivity for the glycine site on the NMDA receptor.

Physical and Chemical Properties:

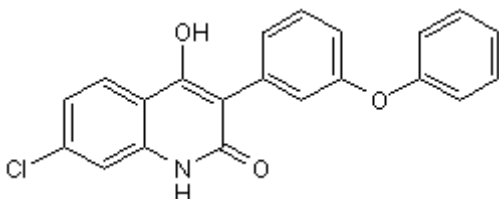
Batch Molecular Formula: C₂₁H₁₄ClNO₃·¼H₂O

Batch Molecular Weight: 368.3

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

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:

Kulagowski et al (1994) 3'-(Arylmethyl)- and 3'-(aryloxy)-3-phenyl-4-hydroxyquinolin-2(1*H*)-ones: orally active antagonists of the glycine site on the NMDA receptor. *J.Med.Chem.* **37** 1402. PMID: 8182696.

Obrenovitch and Zilkha (1996) Inhibition of cortical spreading depression by L-701,324, a novel antagonist at the glycine site of the N-methyl-D-aspartate receptor complex. *Br.J.Pharmacol.* **117** 931. PMID: 8851513.

Bristow et al (1996) The atypical neuroleptic profile of the glycine/N-methyl-D-aspartate receptor antagonist, L-701,324 in rodents. *J.Pharmacol.Exp.Ther.* **277** 578. PMID: 8627534.

Bristow et al (1996) Anticonvulsant and behavioral profile of L-701,324, a potent, orally active antagonist at the glycine modulatory site on the N-methyl-D-aspartate receptor complex. *J.Pharmacol.Exp.Ther.* **279** 492. PMID: 8930150.

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