TOCRIS
a bio-techne brand

Print Date: Jan 8th 2016

Certificate of Analysis

www.tocris.com

Product Name: **L-701,252** **Catalog No.: 0705** **Batch No.: 4**

CAS Number: 151057-13-5

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{13}H_{10}ClNO_3$

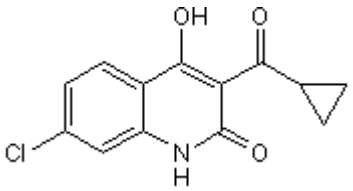
Batch Molecular Weight: 263.68

Physical Appearance: White crystalline solid

Solubility: DMSO to 50 mM

Storage: Desiccate at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.5 (Dichloromethane:Methanol [19:1])

Melting Point: Between 231 - 235°C(dec)

HPLC: Shows 99.5% purity

^{1}H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	59.22	3.82	5.31
Found	59.16	3.88	5.18

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel:+1 612 379 2956

Product Name: **L-701,252** **Catalog No.: 0705** **Batch No.: 4**

CAS Number: 151057-13-5

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

Description:

An antagonist at the glycine-NMDA site (IC_{50} = 420 nM). Also a potent systemic anticonvulsant.

Physical and Chemical Properties:

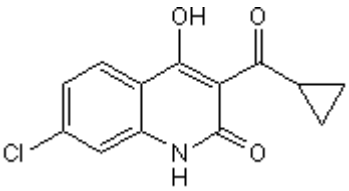
Batch Molecular Formula: $C_{13}H_{10}ClNO_3$

Batch Molecular Weight: 263.68

Physical Appearance: White crystalline solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

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:

Rowley *et al* (1993) 3-Acyl-4-hydroxyquinolin-2(1H)-ones. Systemically active anticonvulsants acting by antagonism at the glycine site of the NMDA receptor complex. J.Med.Chem. ***36*** 3386. PMID: 8230129.

Stone (2000) Development and therapeutic potential of kynurenic acid and kynurenine derivatives for neuroprotection. TiPS ***21*** 149. PMID: 10740291.