bio-techne
TOCRIS

Print Date: Sep 19th 2023

Certificate of Analysis

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Product Name: **7-Chlorokynurenic acid** **Catalog No.: 0237** **Batch No.: 7**

CAS Number: 18000-24-3 EC Number: 241-913-6

IUPAC Name: 7-Chloro-4-hydroxyquinoline-2-carboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{10}H_6ClNO_3.¼H_2O$

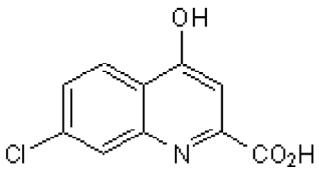
Batch Molecular Weight: 228.12

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.6% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	52.65	2.87	6.14
Found	52.57	2.78	6.07

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

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Catalog No.: 0237 7

CAS Number: 18000-24-3
EC Number: 241-913-6

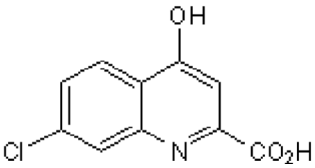
IUPAC Name: 7-Chloro-4-hydroxyquinoline-2-carboxylic acid

Description:
7-Chlorokynurenic acid is an NMDA receptor antagonist acting at the glycine site. Potent competitive inhibitor of L-glutamate transport into synaptic vesicles. Sodium Salt also available.

Physical and Chemical Properties:
Batch Molecular Formula: $C_{10}H_6ClNO_3.¼H_2O$
Batch Molecular Weight: 228.12
Physical Appearance: White solid

Minimum Purity: ≥98%

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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Bartlett *et al* (1998) Substituted quinolines as inhibitors of L-glutamate transport into synaptic vesicles. Neuropharmacology ***37*** 839. PMID: 9776380.

Kretschmer *et al* (1995) Behavioral and neurochemical actions of the strychnine-insensitive glycine receptor antagonist, 7-chlorokynurenate, in rats. Eur.J.Pharmacol. ***280*** 37. PMID: 7498252.

Donald *et al* (1988) Characterization of [^{3}H]-glycine binding to a modulatory site within the NMDA receptor complex from rat brain. Br.J.Pharmacol. ***95*** 892P.