

Certificate of Analysis

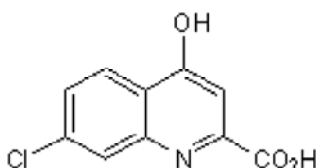
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Product Name: 7-Chlorokynurenic acid
CAS Number: 18000-24-3
IUPAC Name: 7-Chloro-4-hydroxyquinoline-2-carboxylic acid

Catalog No.: 0237 **Batch No.:** 6
EC Number: 241-913-6

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₆ClNO₃·0.33H₂O
Batch Molecular Weight: 229.6251
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	52.31	2.93	6.1
Found	52.04	2.58	5.95

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

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Description:

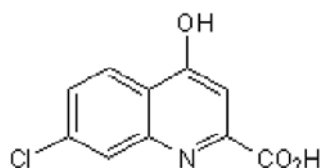
7-Chlorokynurenic acid is an NMDA receptor antagonist acting at the glycine site. Potent competitive inhibitor of L-glutamate transport into synaptic vesicles. Sodium Salt also available.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₀H₆ClNO₃.0.33H₂O
 Batch Molecular Weight: 229.6251
 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. 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:

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 [³H]-glycine binding to a modulatory site within the NMDA receptor complex from rat brain. *Br.J.Pharmacol.* **95** 892P.

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