

Certificate of Analysis

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Product Name: 7-Chlorokynurenic acid sodium salt

Catalog No.: 3697

Batch No.: 4

CAS Number: 1263094-00-3

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₅ClNNaO₃·¾H₂O

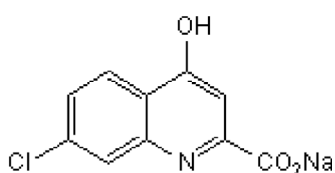
Batch Molecular Weight: 259.1

Physical Appearance: Off White solid

Solubility: water to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.2% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

Carbon Hydrogen Nitrogen

Theoretical	46.36	2.53	5.41
Found	45.61	2.46	5.19

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

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

Description:

7-Chlorokynurenic acid sodium salt is a sodium salt of 7-Chlorokynurenic acid (Cat.No. 0237), an NMDA receptor antagonist acting at the glycine site. Potent competitive inhibitor of L-glutamate transport into synaptic vesicles.

Physical and Chemical Properties:

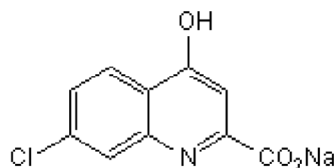
Batch Molecular Formula: C₁₀H₅ClNNaO₃·¾H₂O

Batch Molecular Weight: 259.1

Physical Appearance: Off White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

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

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