Print Date: Jan 15th 2018

Certificate of Analysis

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Product Name: **7-Chlorokynurenic acid sodium salt** **Catalog No.: 3697** **Batch No.: 3**

CAS Number: 1263094-00-3

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{10}H_5ClNNaO_3.H_2O$

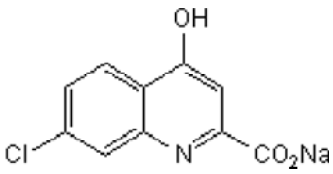
Batch Molecular Weight: 263.61

Physical Appearance: Off White solid

Solubility: water to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.31 (Chloroform:Methanol [97:3])

HPLC: Shows 98.7% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	45.56	2.68	5.31
Found	45.43	2.41	5.2

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

Description:

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:

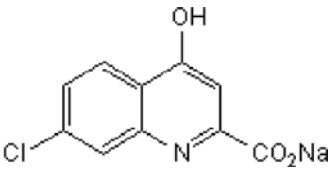
Batch Molecular Formula: $C_{10}H_5ClNNaO_3.H_2O$

Batch Molecular Weight: 263.61

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

Kemp *et al* (1988) 7-Chlorokynurenic acid is a selective antagonist of the glycine modulatory site of the NMDA receptor complex. Proc.Natl.Acad.Sci.USA ***85*** 6547.