Print Date: Dec 12th 2017

Certificate of Analysis

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Product Name: **5,7-Dichlorokynurenic acid** **Catalog No.: 0286** **Batch No.: 6**

CAS Number: 131123-76-7

IUPAC Name: 5,7-Dichloro-4-hydroxyquinoline-2-carboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C10H5Cl2NO3.H_2O$

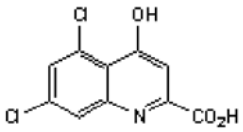
Batch Molecular Weight: 276.08

Physical Appearance: Cream solid

Solubility: 1eq. NaOH to 100 mM
DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.48 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])

Melting Point: Greater than 250°C(Dec)

HPLC: Shows 99.3% purity

^{1}H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen	
Theoretical	43.51	2.56	5.07	0 0 0
Found	43.05	2.19	5.12	0 0 0

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Product Information

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CAS Number: 131123-76-7

IUPAC Name: 5,7-Dichloro-4-hydroxyquinoline-2-carboxylic acid

Description:

Potent antagonist at the glycine site of the NMDA receptor (K_i = 79 nM vs. [^{3}H]-glycine). Sodium Salt also available.

Physical and Chemical Properties:

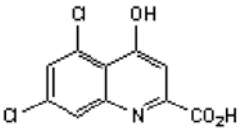
Batch Molecular Formula: $C10H5Cl2NO3.H_2O$

Batch Molecular Weight: 276.08

Physical Appearance: Cream solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

1eq. NaOH to 100 mM
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:

Baron *et al* (1990) Activity of 5,7-dichlorokynurenic acid. A potent antagonist at the NMDA receptor-associated glycine binding site. Mol.Pharmacol. ***38*** 554. PMID: 2172769.

Moore *et al* (1990) Substituted kynurenic acid derivatives. Potent and selective antagonists at the glycine site on the NMDA receptor. Eur.Fed.Med.Chem. (under auspices of IUPAC) XIth I 29.