

Product Name: 5,7-Dichlorokynurenic acid sodium salt

Catalog No.: 3698

Batch No.: 1

CAS Number: 1184986-70-6

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₄Cl₂NNaO₃·³/₄H₂O

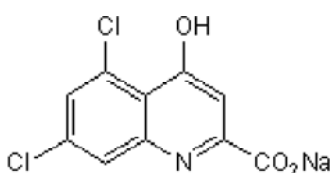
Batch Molecular Weight: 293.55

Physical Appearance: Off-white solid

Solubility: 1eq. NaOH to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.32 (Chloroform:Methanol [30:70])

HPLC: Shows 99.8% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	40.92	1.89	4.77
Found	40.68	1.55	4.69

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

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CAS Number: 1184986-70-6

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

Description:

Sodium salt of 5,7-Dichlorokynurenic acid (Cat. No. 0286), a potent antagonist at the glycine site of the NMDA receptor ($K_i = 79$ nM vs. [³H]-glycine).

Physical and Chemical Properties:

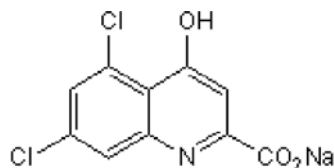
Batch Molecular Formula: C₁₀H₄Cl₂NNaO₃·³/₄H₂O

Batch Molecular Weight: 293.55

Physical Appearance: Off-white solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

1eq. NaOH 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.

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