TOCRIS bioscience

Print Date: Apr 28th 2015

Certificate of Analysis

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Product Name: **Kynurenic acid** **Catalog No.: 0223** **Batch No.: 57**

CAS Number: 492-27-3 EC Number: 207-751-5

IUPAC Name: 4-Hydroxyquinoline-2-carboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{10}H_7NO_3.H_2O$

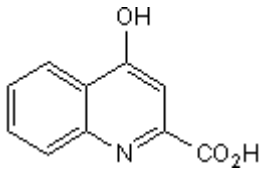
Batch Molecular Weight: 207.19

Physical Appearance: Off White solid

Solubility: DMSO to 75 mM
1eq. NaOH to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	57.97	4.38	6.76
Found	58.03	4.39	6.75

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IUPAC Name: 4-Hydroxyquinoline-2-carboxylic acid

Description:

Broad spectrum EAA antagonist. Putative GPR35 ligand. Kynurenic acid sodium salt also available (Cat. No. 3694).

Physical and Chemical Properties:

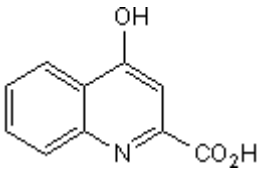
Batch Molecular Formula: $C_{10}H_7NO_3.H_2O$

Batch Molecular Weight: 207.19

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 75 mM
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:

Perkins and Stone (1982) An iontophoretic investigation of the actions of convulsant kynurenines and their interaction with the endogenous excitant quinolinic acid. Brain Res. ***247*** 184. PMID: 6215086.

Stone and Burton (1988) NMDA receptors and ligands in the vertebrate CNS. Prog.Neurobiol. ***30*** 333. PMID: 2830636.

Pittaluga *et al* (1997) The 'kynurenate test,' a biochemical assay for putative cognition enhancers. J.Pharmacol.Exp.Ther. ***283*** 82. PMID: 9336311.

Wang *et al* (2006) Kynurenic acid as a ligand for orphan G protein-coupled receptor GPR35. J.Biol.Chem. ***281*** 22021. PMID: 16754668.