TOCRIS
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Print Date: Jan 15th 2016

Certificate of Analysis

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Product Name: **Xanthurenic acid** **Catalog No.: 4120** **Batch No.: 1**

CAS Number: 59-00-7

IUPAC Name: 4,8-Dihydroxyquinoline-2-carboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{10}H_7NO_4.½H_2O$

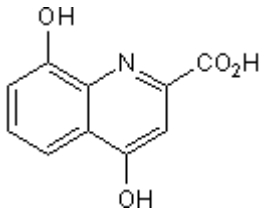
Batch Molecular Weight: 214.18

Physical Appearance: Beige solid

Solubility: DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	56.08	3.76	6.54
Found	56.35	3.55	6.58

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CAS Number: 59-00-7

IUPAC Name: 4,8-Dihydroxyquinoline-2-carboxylic acid

Description:

Shown to selectively activate group II mGlu receptors in transfected HEK293 cells at nanomolar concentrations. Attenuates cAMP formation in mouse cortical slices expressing $mGlu_2$ and $mGlu_3$ receptors.

Physical and Chemical Properties:

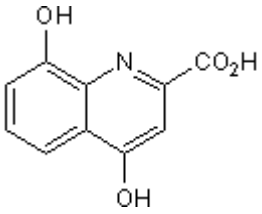
Batch Molecular Formula: $C_{10}H_7NO_4.½H_2O$

Batch Molecular Weight: 214.18

Physical Appearance: Beige solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

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:

Han *et al* (2007) The tryptophan oxidation pathway in mosquitoes with emphasis on xanthurenic acid biosynthesis. J.Insect.Physiol. ***53*** 254. PMID: 17070835.

Mauro *et al* (2010) Xanthurenic acid, a novel endogenous ligand for metabotropic glutamate receptors. Program No. 643.1/F2. 2010 Neuroscience Meeting Pl 2010 (Online).