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Certificate of Analysis

www.tocris.com

Print Date: Jun 22nd 2023

Kynurenic acid Product Name:

CAS Number: 492-27-3 IUPAC Name: 4-Hydroxyquinoline-2-carboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:

 $C_{10}H_7NO_3.H_2O$ 207.19 Pale yellow solid DMSO to 50 mM 1eq. NaOH to 100 mM Store at RT

Storage: **Batch Molecular Structure:**

OН CO₂H

2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: **Microanalysis:**

Shows 99.9% purity Consistent with structure Consistent with structure

57.87

Found

Carbon Hydrogen Nitrogen Theoretical 57.97 4.38 6.76

4.35

6.66

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

bio-techne.com	North America	China	Europe Middle East Africa	Rest of World
info@bio-techne.com techsupport@bio-techne.com	Tel: (800) 343 7475	info.cn@bio-techne.com Tel: +86 (21) 52380373	Tel: +44 (0)1235 529449	www.tocris.com/distributors Tel:+1 612 379 2956

Catalog No.: 0223 EC Number: 207-751-5

Batch No.: 61

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Print Date: Jun 22nd 2023

61

Product Name: Kynurenic acid

CAS Number: 492-27-3 IUPAC Name: 4-Hydroxyguinoline-2-carboxylic acid

Description:

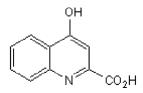
Kynurenic acid is a broad spectrum EAA antagonist. Putative GPR35 ligand. Kynurenic acid protects tissues in cardiac, cerebral, renal, and retinal ischemia models via activation of GPR35 and induction of ATP synthase dimerization in an ATPIF1-dependent and pertussis toxin (Cat. No. 3097) sensitive manner. Sodium Salt also available.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₀H₇NO₃.H₂O Batch Molecular Weight: 207.19 Physical Appearance: Pale yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 50 mM 1eq. NaOH to 100 mM

Stability and Solubility Advice:

So	me sol	lutions ca	an be difficu	ult te	o obtair	and can	be e	enc	couraged
by	rapid	stirring,	sonication	or	gentle	warming	(in	а	45-60°C
wa	ter bat	h).							

Catalog No.: 0223

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Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Wyant et al (2022) Mitochondrial remodeling and ischemic protection by G protein-coupled receptor 35 agonists. Science **377** 621. PMID: 35926043.

Wang *et al* (2006) Kynurenic acid as a ligand for orphan G protein-coupled receptor GPR35. J.Biol.Chem. **281** 22021. PMID: 16754668. **Pittaluga** *et al* (1997) The 'kynurenate test,' a biochemical assay for putative cognition enhancers. J.Pharmacol.Exp.Ther. **283** 82. PMID: 9336311.

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