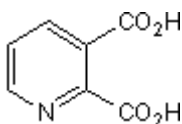


Product Name: Quinolinic acid
CAS Number: 89-00-9
IUPAC Name: Pyridine-2,3-dicarboxylic acid

Catalog No.: 0225 **Batch No.:** 8
EC Number: 201-874-8

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₇H₅NO₄
Batch Molecular Weight: 167.12
Physical Appearance: White solid
Solubility: 1eq. NaOH to 50 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 240 - 242°C
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	50.3	3.01	8.38
Found	50.56	2.94	8.31

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

Product Name: Quinolinic acid

Catalog No.: 0225

Batch No.: 8

CAS Number: 89-00-9

EC Number: 201-874-8

IUPAC Name: Pyridine-2,3-dicarboxylic acid

Description:

Endogenous NMDA agonist and transmitter candidate. May distinguish between NMDA receptor subtypes.

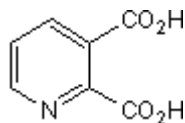
Physical and Chemical Properties:

Batch Molecular Formula: C₇H₅NO₄

Batch Molecular Weight: 167.12

Physical Appearance: White solid

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

1eq. NaOH to 50 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:

Stone and Perkins (1981) Quinolinic acid: a potent endogenous excitant at amino acid receptors in the rat CNS. *Eur.J.Pharmacol.* **72** 411. PMID: 6268428.

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

Monaghan and Beaton (1991) Quinolinic acid differentiates between forebrain and cerebellar NMDA receptors. *Eur.J.Pharmacol.* **194** 123. PMID: 1676371.

Prada de Carvalho et al (1996) The endogenous agonist quinolinic acid and the non-endogenous homoquinolinic acid discriminate between NMDAR2 receptor subunits. *Neurochem.Int.* **28** 445. PMID: 8740453.

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

Tocris Bioscience is an R&D Systems company

USA & CANADA Tel: (800) 343-7475 EUROPE Tel: +44 (0)1235 529449 CHINA Tel: +86 (21) 52380373

www.RnDSystems.com