

Certificate of Analysis

Print Date: May 11th 2018

www.tocris.com

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_7H_5NO_4$ Batch Molecular Weight:167.12Physical Appearance:White solid

Solubility: 1eq. NaOH to 50 mM

Storage: Store at RT

Batch Molecular Structure:

2. ANALYTICAL DATA

Microanalysis:

Melting Point:

Between 240 - 242°C

Consistent with structure

Mass Spectrum:

Consistent with structure

Carbon Hydrogen Nitrogen

Theoretical 50.3 3.01 8.38 Found 50.56 2.94 8.31



Product Information

Print Date: May 11th 2018

www.tocris.com

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: $C_7H_5NO_4$ 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:

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.

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

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

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.