TOCRIS
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Print Date: Jan 8th 2016

Certificate of Analysis

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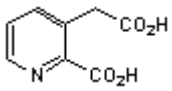
Product Name: **Homoquinolinic acid** **Catalog No.: 0197** **Batch No.: 7**
CAS Number: 490-75-5

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_8H_7NO_4.H_2O$
Batch Molecular Weight: 199.17
Physical Appearance: Off-white solid
Solubility: 1eq. NaOH to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.85 (Methanol:Water [7:3])
HPLC: Shows 100% purity
^{1}H NMR: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	48.25	4.55	7.03
Found	47.94	4.5	6.96

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Product Name: **Homoquinolinic acid** **Catalog No.: 0197** **Batch No.: 7**

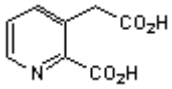
CAS Number: 490-75-5

Description:
Potent NMDA receptor agonist; subtype-selective.

Physical and Chemical Properties:
Batch Molecular Formula: $C_8H_7NO_4.H_2O$
Batch Molecular Weight: 199.17
Physical Appearance: Off-white solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:
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:

Stone (1984) Excitant activity of methyl derivatives of quinolinic acid on rat cortical neurones. Br.J.Pharmacol. ***81*** 175. PMID: 6546701.

Olverman *et al* (1988) Structure/activity relations of NMDA receptor ligands as studied by their inhibition of [^{3}H]-D-2-amino-5-phosphonopentanoic acid binding in rat brain membranes. Neuroscience ***26*** 17. PMID: 2901691.

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