

Certificate of Analysis

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Product Name: Cinnabarinic acid

Catalog No.: 4119

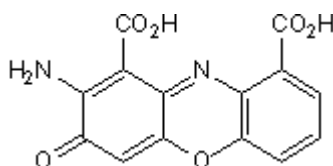
Batch No.: 1

CAS Number: 606-59-7

IUPAC Name: 2-Amino-3-oxo-3*H*-phenoxazine-1,9-dicarboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₈N₂O₆
Batch Molecular Weight: 300.22
Physical Appearance: Red solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows >98.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	56.01	2.69	9.33
Found	56.08	2.68	9.27

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

Product Information

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Description:

mGlu₄ receptor agonist. Activates mGlu₄ receptors in transiently transfected HEK293 cells; selective over all other mGlu subtypes (mGlu₁, mGlu₂ and mGlu₅₋₈). Decreases cAMP levels in native cultured cerebellar granule cells. Also counteracts excitotoxic neuronal cell death induced by NMDA in mixed cultures of cortical cells; displays neuroprotective activity.

Physical and Chemical Properties:

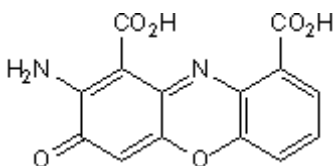
Batch Molecular Formula: C₁₄H₈N₂O₆

Batch Molecular Weight: 300.22

Physical Appearance: Red solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

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:

Fazio (2012) Cinnabarinic acid, an endogenous metabolite of the kynurenine pathway, activates type-4 metabotropic glutamate receptors. *Mol.Pharmacol.* **Feb 6** Epub ahead of print. PMID: 22311707.

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bio-techne.com

info@bio-techne.com
techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors
Tel: +1 612 379 2956