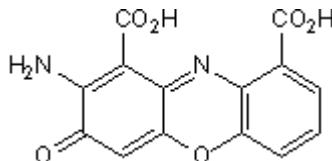


Certificate of Analysiswww.tocris.com**Product Name:** Cinnabarinic acid**Catalog No.:** 4119**Batch No.:** 1**CAS Number:** 606-59-7**IUPAC Name:** 2-Amino-3-oxo-3*H*-phenoazine-1,9-dicarboxylic acid**1. PHYSICAL AND CHEMICAL PROPERTIES****Batch Molecular Formula:** C₁₄H₈N₂O₆**Batch Molecular Weight:** 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

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Product Information

www.tocris.com**Product Name:** Cinnabarinic acid**Catalog No.:** 4119**Batch No.:** 1

CAS Number: 606-59-7

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

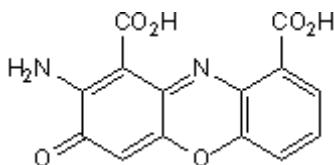
Description:

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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