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DATASHEET

Cinnabarinic acid

Product overview

Name	Cinnabarinic acid
Cat No	HB0195
Biological action	Agonist
Purity	>98%
Description	Selective mGlu ₄ agonist

Images



Biological Data

Biological description	Selective mGlu ₄ receptor agonist. Endogenous metabolite of the kynurenine pathway. Shows no activity at other mGlu receptors. Protective against EAE, a multiple sclerosis model in mice.
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Solubility & Handling

Storage instructions	-20 °C
Solubility overview	Soluble in DMSO (100mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	2-Amino-3-oxo-3H-phenoxazine-1,9-dicarboxylic acid
Molecular Weight	300.22
Chemical structure	
Molecular Formula	C ₁₄ H ₈ N ₂ O ₆
CAS Number	606-59-7
PubChem identifier	114918
SMILES	O=C2C(N)=C(C(O)=O)C1=NC3=C(C=CC=C3C(O)=O)OC1=C2
InChIKey	FSBKJYLVDVRPTK-UHFFFAOYSA-N

References

Cinnabarinic acid, an endogenous metabolite of the kynurenine pathway, activates type 4 metabotropic glutamate receptors.

Fazio F *et al* (2012) *Mol Pharmacol* 81(5)

PubMedID [22311707](#)

An expanding range of targets for kynurenine metabolites of tryptophan.

Stone TW *et al* (2013) *Trends Pharmacol Sci* 34(2)

PubMedID [23123095](#)

Cinnabarinic acid, an endogenous agonist of type-4 metabotropic glutamate receptor, suppresses experimental autoimmune encephalomyelitis in mice.

Fazio F *et al* (2014) *Neuropharmacology* 81

PubMedID [24565643](#)
