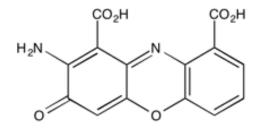


Catalog # 10-2883 Cinnabarinic acid CAS# 606-59-7 2-amino-3-oxo-3H-phenoxazine-1,9-dicarboxylic acid Cinnabaric acid Lot # S102120



A novel endogenous tryptophan metabolite which acts as an aryl hydrocarbon receptor (AHR) agonist.¹ It drives IL-22 production by stimulating the differentiation of human and mouse T cells producing IL-22.¹ Induces apoptosis in thymocytes.² Activates type 4 metabotropic glutamate receptors.³ Counteracts excitotoxic neuronal cell death induced by NMDA in mixed cultures of cortical cells. Displays neuroprotective activity.³

- 1) Lowe et al. (2014), Identification of cinnabarinic acid as a novel endogenous aryl hydrocarbon receptor ligand that drives IL-22 production; PLoS One, **9(2)** e87877
- 2) Hiramatsu et al. (2008), Cinnabarinic acid generated from 3-hydroxyanthranilic acid strongly induces apoptosis in thymocytes through the generation of reactive oxygen species and the induction of caspase; J. Cell. Biochem.
 103 42
- 3) Fazio et al. (2012), Cinnabarinic acid, an endogenous metabolite of the kynurenine pathway, activates type 4 metabotropic glutamate receptors; Mol. Pharmacol. **81** 643

PHYSICAL DATA

Molecular Weight:	300.22
Molecular Formula:	$C_{14}H_8N_2O_6$
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 30 mg/ml), or DMF (up to 25 mg/ml)
Physical Description:	Red solid
Storage and Stability:	Store as supplied, desiccated at -20°C for up to 2 years from the date of purchase. Solutions in
- ,	DMSO or DMF may be stored at -20°C for up to 1 month.

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