

Cinnabarinic acid, AhR ligand, endogenous

Catalog	Unit
TBI2883-5MG	5 mg
TBI2883-25MG	25 mg

Product Details

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

Alternate Names: Cinnabarinic acid

Molecular Formula: C₁₄H₈N₂O₆

Formula Weight: 300.22

CAS Number: 606-59-7

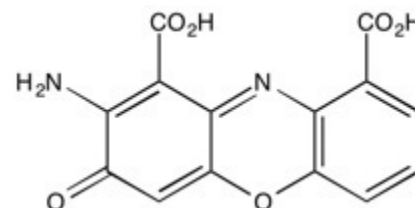
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 30 mg/ml) or in DMF (up to 25 mg/ml).

Storage: -20°C

Stability: ≥ 2 years.



Applications

AhR ligand, endogenous

Functions

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

Application Procedures

First dissolved in DMSO (up to 30 mg/ml) or in DMF (up to 25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or DMF may be stored at -20°C for up to 1 month.

For research use only.