

## Tryptanthrin, Immunomodulator; IDO2 inhibitor

---

Catalog	Unit
TBI2228-5MG	5 mg
TBI2228-25MG	25 mg

### Product Details

**Formal Name:** Indolo(2,1-b)quinazoline-6,12-dione

**Alternate Names:** NSC 349447; Couroupitine A

**Molecular Formula:** C<sub>15</sub>H<sub>8</sub>N<sub>2</sub>O<sub>2</sub>

**Formula Weight:** 248.24

**CAS Number:** 13220-57-0

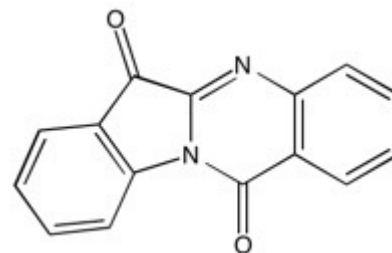
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to 30 mg/ml)

**Storage:** -20°C

**Stability:** ≥ 1 year.



### Applications

Immunomodulator; IDO2 inhibitor

### Functions

A indoloquinazoline alkaloid found in various plant species and possessing intriguing pharmacological activities. Suppresses activation of BV2 microglia cells following LPS treatment and reduces production of proinflammatory cytokines via Nrf2, HO-1 and NFκB signaling. Displays antiinflammatory activity targeting IL-17. Inhibits indoleamine 2,3-dioxygenase 2 (IDO2) with an IC<sub>50</sub> of 5-17 μM. Induces growth inhibition and neuronal differentiation in human neuroblastoma LA-N-1 cells.

### Application Procedures

First dissolved in DMSO (up to 30 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

**For research use only.**