

## Indirubin, AhR ligand

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Catalog	Unit
TBI1383-5MG	5 mg
TBI1383-25MG	25 mg

### Product Details

**Formal Name:** 3-(1,3-dihydro-3-oxo-2H-indol-2-ylidene)-1,3-dihydro-2H-indol-2-one

**Alternate Names:** Indigo red; Couroupitine B; Indigopurpurin

**Molecular Formula:** C<sub>16</sub>H<sub>10</sub>N<sub>2</sub>O<sub>2</sub>

**Formula Weight:** 262.30

**CAS Number:** 479-41-4

**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to 10 mg/ml).

**Storage:** RT

**Stability:** ≥ 1 year.

### Applications

AhR ligand

### Functions

Natural product that acts as an inducer of human AhR-dependent gene expression with 10-fold greater potency over the endogenous agonist TCDD. Indirubin also inhibits CDKs (IC<sub>50</sub> = 50–100 nM) and GSK-3β (IC<sub>50</sub> = 5-50 nM). Ameliorates the effects of a high-fat diet on mice. Breaks the inflammatory cycle in in vitro and in vivo models of psoriasis. Inhibits angiogenesis and causes autophagy and apoptosis in cancer cells.

### Application Procedures

First dissolved in DMSO (up to 10 mg/ml), then diluted to aqueous buffer.

**For research use only.**