

## AG-490, JAK2 inhibitor

---

Catalog	Unit
TBI1091-5MG	5 mg
TBI1091-25MG	25 mg

### Product Details

**Formal Name:** (E)-2-Cyano-3-(3,4-dihydroxyphenyl)-N-(phenylmethyl)-2-propenamide

**Molecular Formula:** C<sub>17</sub>H<sub>14</sub>N<sub>2</sub>O<sub>3</sub>

**Formula Weight:** 294.31

**CAS Number:** 133550-30-8

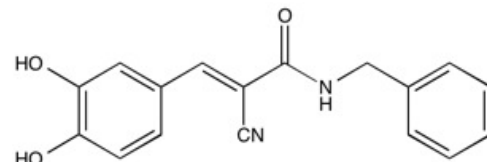
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to 25 mg/ml), in DMF (up to 40 mg/ml) or in Ethanol (up to 10 mg/ml).

**Storage:** -20°C

**Stability:** ≥ 1 year.



### Applications

JAK2 inhibitor

### Functions

A potent inhibitor of the JAK-2 tyrosine kinase. In acute lymphoblastic leukemia (ALL) cells, which abundantly express JAK-2, AG-490 dose-dependently blocked cell growth, induced apoptosis and inhibited DNA synthesis. Blocks the growth of all pre-B ALL cells with no effect on normal B or T cells. Does not significantly inhibit other kinases such as Lck, Lyn, Btk, Syk and Src. Reduces liver injury in LPS-induced shock. A useful tool for exploring the role of JAK2/STAT3 pathway in physiologic processes.

### Application Procedures

First dissolved in DMSO (up to 25 mg/ml), in DMF (up to 40 mg/ml) or in Ethanol (up to 10 mg/ml), then diluted to aqueous buffer. Solutions in DMSO, DMF, or ethanol may be stored at -20°C for up to 1 month.

**For research use only.**