

## Tyrphostin AG 490

Cat. #: T-700

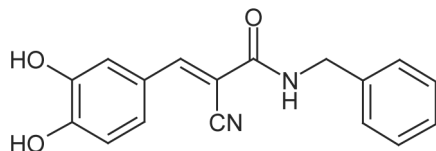
**Source description:** Synthetic.

**M.W.:** 294.31 daltons.

**Purity:** >99%.

**Effective concentration:** 10 nM - 1  $\mu$ M.

**Structure:**



**Chemical 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>.

**CAS No.:** 134036-52-5, 133550-30-8.

**Activity:** Tyrphostin AG 490 is a potent inhibitor for JAK2 and JAK3. In addition Tyrphostin AG 490 inhibits the JAK3/STAT, JAK3/AP-1, and JAK3/MAPK pathways and their cellular consequences<sup>1</sup>.

**References:**

1. Wang, L.H. *et al.* (1999) *J. Immunol.* **162**, 3897.

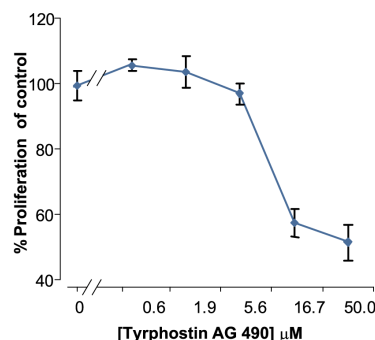
**Sizes:** 5 mg, 5 x 5 mg, or 10 x 1 mg lyophilized powder.

**Storage before reconstitution:** Lyophilized powder can be stored intact at room temperature for several weeks. For longer periods, it should be stored at -20°C.

**Reconstitution:** DMSO. Centrifuge all product preparations before use (10000 x g 5 min).

**Storage and stability after reconstitution:** Up to two weeks at 4°C or six months at -20°C.

**Bioassay:** Tyrphostine AG 490 inhibits the proliferation of Jurkat cells.



Cells were treated with different concentrations of **Tyrphostin AG 490** (#T-700) for 4 days. Cell survival was measured after 4 days using the XTT method, calculated as a relative percentage of the control without Tyrphostin AG 490 and plotted against drug concentrations.

For research purposes only, not for human use.  
Last Update: May, 2010.