**Cat No. 22-B79**

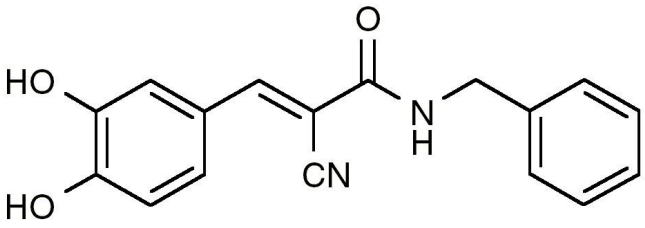
# Tyrphostin AG 490

**10 mg**

**For research purposes only**

Tyrphostin AG 490 is a specific and potent JAK-2 protein tyrosine kinase inhibitor. It has been shown to inhibit EGF receptor autophosphorylation, DNA synthesis and cell growth. It induces apoptosis with no deleterious effect on normal hematopoiesis. Tyrphostin AG 490 has been shown to inhibit the growth of leukemic cells *in vitro* and *in vivo*. This compound is a valuable tool for studying the cellular role of JAK kinases in signal transduction.

## TECHNICAL INFORMATION




**Other Names:** 2-cyano-3-(3,4-dihydroxyphenyl)-N-(phenylmethyl)-2-propenamide, AG-490

**Chemical Formula:** $C_{17}H_{14}N_2O_3$

**CAS Number:** 133550-38-8

**Molecular Weight:** 294.3

**Purity:** >98%

**Appearance:** crystalline solid

**Solubility:** DMSO, ethanol

## STORAGE AND HANDLING

**Storage:** Store at 4°C and protected from light. Following reconstitution, store aliquots at -20°C.

**Stability:** Stock solutions stable at -20°C for up to 2 years.

**Shipping Conditions:** Shipped at room temperature.

## PRODUCT USE

Soluble in DMSO at 200mg/ml. Soluble in ethanol at 16mg/ml. Very poorly soluble in water.

## REFERENCES


1. Levitzki A. (1990) Tyrphostins-potential antiproliferative agents and novel molecular tools. Biochem Phamacol. 40(5):913-8.
2. Meydan et al. (1996) Inhibition of acute lymphoblastic leukaemia by a Jak-2 inhibitor. Nature. 379(6566):645-8.
3. Burdelya et al. (2002) Combination therapy with AG-490 and interleukin 12 achieves greater antitumor effects than either agent alone. Mol Cancer Ther, (11):893-9.
4. Jane et al. (2007) AG490 influences UCN-01-induced cytotoxicity in glioma cells in a p53-dependent fashion, correlating with effects of BAX cleavage and BAD phosphorylation. Cancer Lett 257(1):36-46.