

# AG1024

**Catalog No: tcsc1032**



## Available Sizes

**Size:** 5mg

**Size:** 10mg



## Specifications

**CAS No:**

65678-07-1

**Formula:**

$C_{14}H_{13}BrN_2O$

**Pathway:**

Protein Tyrosine Kinase/RTK;Autophagy

**Target:**

IGF-1R;Autophagy

**Purity / Grade:**

>98%

**Solubility:**

DMSO :  $\geq 50$  mg/mL (163.84 mM)

**Alternative Names:**

Tyrphostin AG 1024

**Observed Molecular Weight:**

305.17

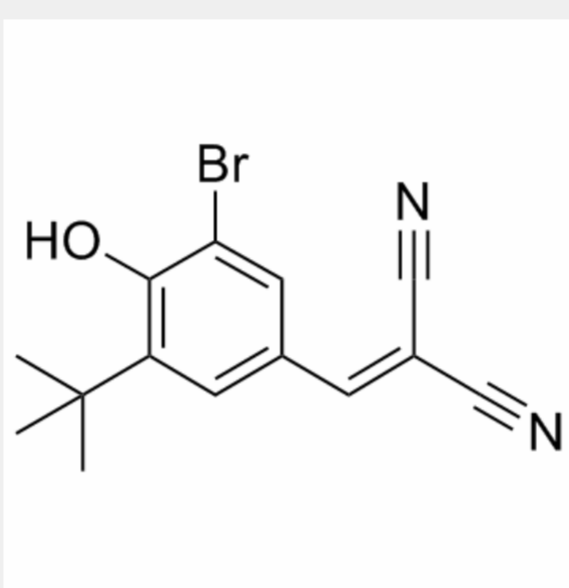
## Product Description

AG-1024 (Tyrphostin) inhibits IGF-1R autophosphorylation with IC50 of 7  $\mu$ M, less potent to IR with IC50 of 57  $\mu$ M.

IC50 value: 7  $\mu$ M (IGF-1R autophosphorylation); 57  $\mu$ M (IR) [1]

Target: IGF-1R; IR

in vitro: AG-1024 blocks the IGF-1 receptor and IR autophosphorylation with IC50 of 7  $\mu$ M and 57  $\mu$ M, respectively. AG-1024 also inhibits the receptor tyrosine kinase activity towards exogenous substrates (TKA) with IC50 values of 18  $\mu$ M and 80  $\mu$ M, respectively [1]. Human breast cancer cell line MCF-7 exposure to Tyrphostin AG 1024 inhibited proliferation and induced apoptosis in a time-dependent manner, and the degree of growth inhibition for IC20 plus irradiation (4 Gy) was up to 50% compared to the control. Examination of Tyrphostin AG 1024 effects on radiation response demonstrated a marked enhancement in radiosensitivity and amplification of radiation-induced apoptosis [2]. AG-1024 significantly inhibits melanoma cell proliferation with an IC50 of in vivo: Administration of AG-1024 at a dose of 30  $\mu$ g for 10 days significantly inhibits the tumor growth of Ba/F3-p210 xenograft in mice [4].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!