

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 : ≥ 50 mg/mL (163.84 mM)

Alternative Names:

Tyrphostin AG 1024

Observed Molecular Weight:

305.17

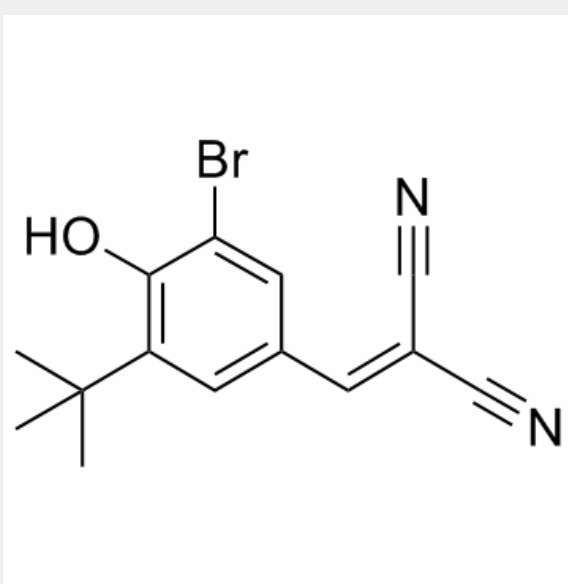
Product Description

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

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

Target: IGF-1R; IR

in vitro: AG-1024 blocks the IGF-1 receptor and IR autophosphorylation with IC50 of 7 μ M and 57 μ M, respectively. AG-1024 also inhibits the receptor tyrosine kinase activity towards exogenous substrates (TKA) with IC50 values of 18 μ M and 80 μ 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 μ g for 10 days significantly inhibits the tumor growth of Ba/F3-p210 xenograft in mice [4].



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