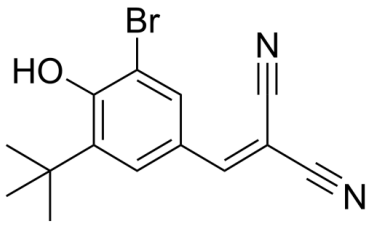
Data Sheet

Product Name:	AG1024
Cat. No.:	CS-1032
CAS No.:	65678-07-1
Molecular Formula:	$C_{14}H_{13}BrN_2O$
Molecular Weight:	305.17
Target:	Apoptosis; IGF-1R; Insulin Receptor
Pathway:	Apoptosis; Protein Tyrosine Kinase/RTK
Solubility:	DMSO : ≥ 50 mg/mL



BIOLOGICAL ACTIVITY:

AG1024 (Tyrphostin AG 1024) is a reversible, competitive and selective **IGF-1R** inhibitor with an **IC_{50}** of 7 μM. AG1024 inhibits phosphorylation of **IR** (**IC_{50}**=57 μM). AG1024 induces **apoptosis** and has anti-cancer activity[1][2]. IC50 & Target: IC50: 7 μM (IGF1R) and 57 μM (IR)[1][2] ***In Vitro:*** AG1024 (Tyrphostin AG 1024; 2-10 μM; 1-5 days) shows a dose-dependent inhibition of cell proliferation [1].

AG1024 (1-5 μM; 1-3 days) induces UT7-9 and Baf3-p210 cells apoptosis[1].

AG1024 (2 μM; 6, 12 hours) downregulates phospho-Akt, Bcr-Abl and upregulates DNA-PKcs[1].

In Vivo: AG1024 (Tyrphostin AG 1024; 30 μg; i.p.; per day; for 2 weeks) significantly delays the tumour growth[1].

References:

[1]. Párrizas M, et al. Specific inhibition of IGF-1R and IR tyrosine kinase activity and biological function by tyrphostins. Endocrinology. 1997 Apr;138(4):1427-33.

[2]. Deutsch E, et al. Tyrosine kinase inhibitor AG1024 exerts antileukaemic effects on STI571-resistant Bcr-Abl expressing cells and decreases AKT phosphorylation. Br J Cancer. 2004 Nov 1;91(9):1735-41.

CAIndexNames:

Propanedinitrile, 2-[[3-bromo-5-(1,1-dimethylethyl)-4-hydroxyphenyl]methylene]-

SMILES:

N#C/C(C#N)=C\C1=CC(C(C)(C)C)=C(O)C(Br)=C1

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