



AG-1024

Cat. No.:	OB0225WX-2404
Appearance:	Solid
Purity:	≥99%
Identity:	Confirmed by NMR, and HPLC.
Size:	5 mg; 10 mg; 25 mg; 100 mg; 1 g

This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	AG-1024 is a tyrphostin derivative that inhibits IGF-1R autophosphorylation (IC ₅₀ : 7 microM) and displays significant selectivity in distinguishing IGF-1R from the insulin receptor (IR).
Synonym	Tyrphostin, AGS 200; 65678-07-1; Tyrphostin AG 1024; AG-1024; AG 1024; 2-(3-Bromo-5-(tert-butyl)-4-hydroxybenzylidene)malononitrile; 2-(3-bromo-5-tert-butyl-4-hydroxybenzylidene)malononitrile; 2-[(3-bromo-5-tert-butyl-4-hydroxyphenyl)methylidene]propanedinitrile; 2-((3-bromo-5-tert-butyl-4-hydroxyphenyl)methylidene)propanedinitrile; MFCD02179365; Tyrphostin AG-1024; AGS-200; 2-[[3-Bromo-5-(1,1-dimethylethyl)-4-hydroxyphenyl]methylene]propanedinitrile; 3-bromo-5-tert-butyl-4-hydroxybenzylidenemalononitrile; 2-[(3-bromo-4-hydroxy-5-tert-butyl-phenyl)methylidene]propanedinitrile; Propanedinitrile, [[3-bromo-5-(1,1-dimethylethyl)-4-hydroxyphenyl]methylene]- (9CI); Propanedinitrile, 2-[[3-bromo-5-(1,1-dimethylethyl)-4-hydroxyphenyl]methylene]-; AG 1024; AGS 200; [[3-Bromo-5-(1,1-dimethylethyl)-4-hydroxyphenyl]methylene]propanedinitrile; 2-[[3-Bromo-5-(1,1-dimethylethyl)-4-hydroxyphenyl]methylene]propanedinitrile
CAS No.	65678-07-1
Compound CID	2044
Formula	C ₁₄ H ₁₃ BrN ₂
Formula Weight	305.17

Specification



IUPAC Name	2-[(3-Bromo-5- <i>tert</i> -butyl-4-hydroxyphenyl)methylidene]propanedinitrile
InChI	InChI=1S/C14H13BrN2O/c1-14(2,3)11-5-9(4-10(7-16)8-17)6-12(15)13(11)18/h4-6,18H,1-3H3
InChI Key	ABBADGFSRBWENF-UHFFFAOYSA-N
SMILES string	<chem>CC(C)(C)C1=C(C(=CC(=C1)C=C(C#N)C#N)Br)O</chem>
Stability	3 years in powder form.
Storage	Storage at -20°C.
Applications	AG-1024 is used in signal transduction research as an inhibitor of the IGF-1 receptor tyrosine kinase to study the modulation of downstream signaling and the induction of apoptosis in various neoplastic cell lines.

Library Information

Target	IGF-1R
Receptor	IGF-1R
Pathways	Protein tyrosine kinase
Plate Number	L6700-01
Empty Location	a1-h1; a12-h12
Container	96-well plate
Formulation	10mM DMSO
DMSO Max Solubility	61 mg/mL; 199.89 mM
ALogP	3.922
HBA_Count	0
HBD_Count	1
Rotatable Bond	2