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DATASHEET

AG 490

Product overview

Name	AG 490
Cat No	HB1424
Alternative names	Tyrphostin AG 490
Biological action	Inhibitor
Purity	>99%
Description	Selective EGF receptor tyrosine kinase inhibitor

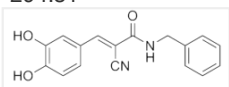
Biological Data

Biological description	Selective EGF receptor tyrosine kinase inhibitor. Inhibits EGFR and ErbB2 (IC ₅₀ values are 2 and 13.5 μM respectively). Inhibits JAK2, JAK3/STAT, JAK3/AP-1 and JAK3/MAPK signaling pathways. Inhibits IL-2-induced T cell proliferation. Shows anti-cancer actions.
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Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in DMSO (100mM) or ethanol (20mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	(E)-2-Cyano-3-(3,4-dihydroxyphenyl)-N-(phenylmethyl)-2-propenamide
Molecular Weight	294.31
Chemical structure	
Molecular Formula	C ₁₇ H ₁₄ N ₂ O ₃
CAS Number	133550-30-8
PubChem identifier	5328779
SMILES	OC1=C(O)C=C(\C=C(/C#N)C(=O)NCC2=CC=CC=C2)C=C1
InChiKey	TUCIOBMMDDOEMM-RIYZIHGNSA-N

References

JAK3, STAT, and MAPK signaling pathways as novel molecular targets for the tyrphostin AG-490 regulation of IL-2-mediated T cell response.

Wang LH *et al* (1999) J Immunol 162(7)

PubMedID 10201908

Inhibition of acute lymphoblastic leukaemia by a Jak-2 inhibitor.

Meydan N *et al* (1996) Nature 379(6566)

PubMedID

8628398

Tyrphostins. 2. Heterocyclic and alpha-substituted benzylidenemalononitrile tyrphostins as potent inhibitors of EGF receptor and ErbB2/neu tyrosine kinases.

Gazit A *et al* (1991) J Med Chem 34(6)

PubMedID

1676428
