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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 |

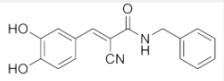
Biological Data

| | |
|-------------------------------|--|
| 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

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|-----------------------------|---|
| 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

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|---------------------------|---|
| 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)

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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 benzyldenemalononitrile tyrphostins as potent inhibitors of EGF receptor and ErbB2/neu tyrosine kinases.

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

PubMedID

1676428
