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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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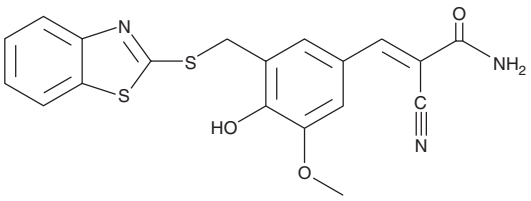
PRODUCT INFORMATION

AG-825

Item No. 10010243

CAS Registry No.: 149092-50-2
Formal Name: 3-[3-[(2-benzothiazolylthio)methyl]-4-hydroxy-5-methoxyphenyl]-2-cyano-2-propenamide
Synonym: Tyrphostin AG-825
MF: $C_{19}H_{15}N_3O_3S_2$
FW: 397.5
Purity: ≥98%
UV/Vis.: λ_{max}: 225, 361 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

AG-825 is supplied as a crystalline solid. A stock solution may be made by dissolving the AG-825 in an organic solvent purged with an inert gas. AG-825 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of AG-825 in ethanol is approximately 0.2 mg/ml and approximately 30 mg/ml in DMSO and DMF.

AG-825 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, AG-825 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. AG-825 has a solubility of approximately 0.1 mg/ml in a 1:3 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

The HER2/Neu proto-oncogene is a member of the epidermal growth factor receptor (EGFR) family of receptor tyrosine kinases (RTK) which includes EGFR, HER2/Neu, HER-3 and HER-4.[1] Overexpression of HER2/Neu occurs in 25-30% of human breast and ovarian cancer. AG-825 is a selective ATP-competitive inhibitor of the tyrosine kinase activity of HER2/Neu. In cell-free assays, AG-825 inhibits HER2/Neu, EGFR, and PDGFR autophoshorylation with IC_{50} values of 0.35, 19, and 40 µM, respectively.[2] However, in select whole cells, the high concentration of ATP prevents inhibition of kinase activity by AG-825.[2] Concentrations of 50 µM AG-825, however, consistently inhibit HER2/Neu signalling and promote killing of human LNCaP, C4, and C4-2 prostate cancer cells.[3]

References

1. Reese, D.M. and Slamon, D.J. HER-2/neu signal transduction in human breast and ovarian cancer. *Stem Cells* **15**, 1-8 (1997).
2. Osherov, N., Gazit, A., Gilon, C., *et al.* Selective inhibition of the epidermal growth factor and HER2/Neu receptors by tyrphostins. *J. Biol. Chem.* **268(15)**, 11134-11142 (1993).
3. Murillo, H., Schmidt, L.J., and Tindall, D.J. Tyrphostin AG825 triggers p38 mitogen-activated protein kinase-dependent apoptosis in androgen-independent prostate cancer cells C4 and C4-2. *Cancer Res.* **61**, 7408-7412 (2001).

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