AG 825

α-Hydroxy-3-methoxy-5-(benzothiazolylthiomethyl)-benzylidenecyanoacetamide

PRODUCT ANALYSIS SHEET

Catalog Number:	PHZ1214
Lot Number:	See product label
Quantity:	2 mg
Appearance:	Yellow solid
Molecular Formula:	$C_{19}H_{15}N_3O_3S_2$
Molecular Weight:	397.5
Purity:	≥95%, as determined by HPLC
Summary:	AG 825, known alternatively as Tyrphostin AG 825, is a potent, selective inhibitor of ErbB-2 (HER2) autophosphorylation. AG 825 is less effective at inhibiting epidermal growth factor (EGF) receptor autophosphorylation. This compound induces apoptosis with androgen-independent prostate cancer cells, and enhances chemosensitivity with non-small cell lung cancer and ovarian cancer cells.
Biological Activity:	ErbB-2: IC_{50} = 0.35 µM Epidermal Growth Factor Receptor: IC_{50} = 19 µM
Solubility:	Soluble in DMSO at a concentration of 10 mg/mL.
Sterility:	This product is not sterile.
Storage:	Store, as supplied, at –20°C, protected from light. Upon solubilization, apportion into working aliquots and store at –20°C. Avoid repeated freeze/thaw cycles. Solutions are stable at –20°C for up to two months.
Expiration Date:	Expires one year from the date of receipt when stored as instructed.
Related Products:	ErbB-2 [pY1139] antibody, Cat. # 44-902 — ErbB-2 antibody, Cat. # AHO0911 ErbB-2 [pY1248] antibody, Cat. # 44-900 — ErbB-2 antibody, FITC conjugate Cat. # AHO0918 ErbB-2 antibody, Cat. # AHO1011 — ErbB-2 antibody, biotin conjugate Cat. # AHO0919

References:

Osherov, N., et al. (1993) Selective inhibition of the epidermal growth factor and HER2/neu receptors by tyrphostins. J. Biol. Chem. 268(15):11134-11142.

Levitzki, A. and A. Gazit (1995) Tyrosine kinase inhibition: an approach to drug development. Science 267(5205):1782-1788.

Tsai, C.M., et al. (1996) Enhancement of chemosensitivity by tyrphostin AG825 in high-p185(neu) expressing non-small cell lung cancer cells. Cancer Res. 56(5):1068-1074.

Murillo, H., et al. (2001) Tyrphostin AG825 triggers p38 mitogen-activated protein kinase-dependent apoptosis in androgen-independent prostate cancer cells C4 and C4-2. Cancer Res. 61(20):7408-7412.

Grunt, T.W. (2003) Tyrphostins and retinoids cooperate during inhibition of in vitro growth of ovarian cancer cells. Cancer Lett. 189(2):147-156.

Caution:

Avoid contact with eyes, skin, and mucous membranes. Wear protective clothing when handling this product. Not for human use.

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Manufactured under ISO 13485 Quality Standard

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