

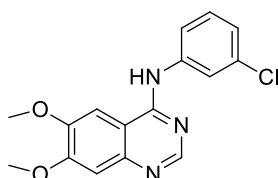
Catalog # 10-2117

AG-1478

CAS# 175178-82-2

N-(3-Chlorophenyl)-6,7-dimethoxy-4-quinazolinanine, free base

Lot # S101049



Potent and selective inhibitor of the EGFR kinase $IC_{50} = 3$ nM. Inhibits proliferation of a variety human cancer cell lines^{1,2}. Reduces pulmonary fibrosis in a rat model³. Cell permeable.

- 1) Han *et al.* (1996), *Tyrphostin AG 1478 preferentially inhibits human glioma cells expressing truncated rather than wild-type epidermal growth factor receptors*; *Cancer Res.*, **56** 3859
- 2) Partik *et al.* (1999), *Inhibition of epidermal-growth-factor-receptor-dependent signaling by tyrphostins A25 and AG1478 blocks growth and induces apoptosis in colorectal tumor cells in vitro*; *J. Cancer Res. Clin. Oncol.*, **125** 379
- 3) Rice *et al.* (1999), *Specific inhibitors of platelet-derived growth factor or epidermal growth factor receptor tyrosine kinase reduce pulmonary fibrosis in rats*; *Am. J. Pathol.*, **155** 213

PHYSICAL DATA

Molecular Weight:	315.76
Molecular Formula:	C ₁₆ H ₁₄ ClN ₃ O ₂
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 30 mg/ml) or Ethanol (up to 10 mg/ml with warming)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

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