



**Catalog # 10-1377**

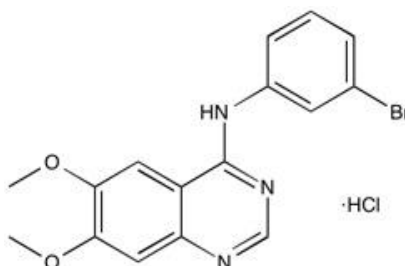
**AG-1517**

CAS# 153436-54-5

PD153,053; SU-5271; Z-252868

4-(3-Bromoanilino)-6,7-dimethoxyquinazoline hydrochloride

Lot # F101666



An ultra-potent inhibitor of epidermal growth factor receptor tyrosine kinase (EGFRK), with an  $IC_{50}$  of 25 pM. Inhibits other tyrosine kinases at micromolar or higher concentrations. It selectively blocks EGF-mediated cellular processes including mitogenesis, early gene expression and oncogenic transformation<sup>1</sup>. Inhibits the growth of a number of cancer cell lines<sup>2</sup>. An extremely useful tool for exploring EGF-mediated cellular signaling<sup>3</sup>.

- 1) Fry *et al.* (1994), *A specific inhibitor of the epidermal growth factor receptor tyrosine kinase*; Science, **265** 1093
- 2) Bos *et al.* (1997), *PD153035, a tyrosine kinase inhibitor, prevents epidermal growth factor receptor activation and inhibits growth of cancer cells in a receptor number-dependent manner*; Clin. Cancer Res., **3** 2099
- 3) Tetreault *et al.* (2008), *Specific signaling cascades involved in cell spreading during healing of micro-wounded gastric epithelial monolayers*; J. Cell. Biochem., **105** 1240

**PHYSICAL DATA**

Molecular Weight:	396.67
Molecular Formula:	C <sub>16</sub> H <sub>14</sub> BrN <sub>3</sub> O <sub>2</sub> · HCl
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 5 mg/ml, with warming)
Physical Description:	White or off-white solid
Storage and Stability:	Store as supplied desiccated at room temperature for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**