

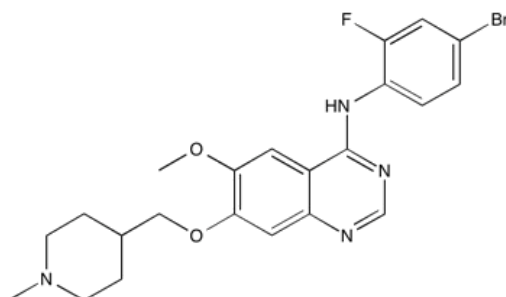
**Catalog # 10-2185**

**Vandetanib**

CAS# 443913-73-3

4-(4-Bromo-2-fluoroanilino)-6-methoxy-7-(1-methylpiperidin-4-yl)methoxy]quinazoline  
ZD6474

Lot # X105611



A potent and selective inhibitor of VEGFR2, (KDR  $IC_{50}$  = 40 nM). Also inhibits fms-like tyrosine kinase 4 (VEGFR3,  $IC_{50}$  = 110 nM) and epidermal growth factor receptor (EGFR/HER1,  $IC_{50}$  = 500 nM) but shows selectivity against a panel of other tyrosine and serine-threonine kinases. Inhibits colony formation in seven cancer cell lines.<sup>2</sup> Displays anti-angiogenesis activity.<sup>3</sup>

- 1) Wedge *et al.* (2002), *ZD6474 inhibits vascular endothelial growth factor signaling, angiogenesis and tumor growth following oral administration*; *Cancer Res.*, **62** 4645
- 2) Ciardiello *et al.* (2003), *Antitumor effects of ZD6474, a small molecule vascular endothelial growth factor receptor tyrosine kinase inhibitor, with additional activity against epidermal growth factor receptor tyrosine kinase*; *Clin. Cancer Res.*, **9** 1546
- 3) Herbst *et al.* (2007), *Vandetanib (ZD6474): an orally available receptor tyrosine kinase inhibitor that selectively targets pathways critical for tumor growth and angiogenesis*; *Expert Opin. Investig. Drugs*, **16** 239

**PHYSICAL DATA**

|                        |                                                                                                                                                |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Molecular Weight:      | 475.35                                                                                                                                         |
| Molecular Formula:     | C <sub>22</sub> H <sub>24</sub> BrFN <sub>4</sub> O <sub>2</sub>                                                                               |
| Purity:                | 98% by TLC                                                                                                                                     |
|                        | NMR: (Conforms)                                                                                                                                |
| Solubility:            | DMSO (up to 30 mg/ml), or Ethanol (up to 10 mg/ml with warming)                                                                                |
| Physical Description:  | White or off-white solid                                                                                                                       |
| Storage and Stability: | Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month. |

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