

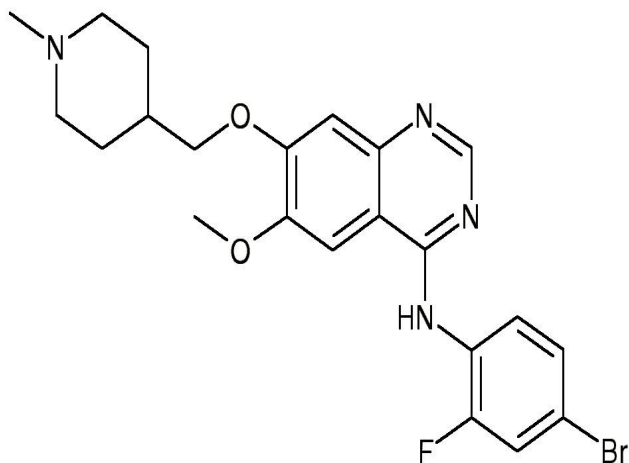
Cat No. 29-E58

Vandetanib

50 mg

Vandetanib is a VEGFR and EGFR antagonist and a tyrosine kinase inhibitor. It has been shown to inhibit VEGFR-dependent tumor angiogenesis and EGFR- and RET-dependent tumor cell proliferation and survival. Vandetanib has also been shown to inhibit fms-like tyrosine kinase 4 (VEGFR3, IC<sub>50</sub> = 110 nM) and epidermal growth factor receptor (EGFR/HER1, IC<sub>50</sub> = 500 nM) but shows selectivity relating to a range of other tyrosine and serine-threonine kinases.

## TECHNICAL INFORMATION



**Other Names:** Caprelsa, Zactima, ZD6474

**Chemical Formula:** C<sub>22</sub>H<sub>24</sub>BrFN<sub>4</sub>O<sub>2</sub>

**CAS Number:** 443913-73-3

**Molecular Weight:** 475.35

**Purity:** >98%

**Appearance:** a crystalline solid

**Solubility:** DMSO



**For research purposes only**

## STORAGE AND HANDLING

**Storage:** Store at 4°C and protected from light. Following reconstitution, store aliquots at -20°C.

**Stability:** Stock solutions stable at -20°C for up to 2 years.

**Shipping Conditions:** Shipped at room temperature.

## PRODUCT USE

Soluble in DMSO at 30 mg/ml. If precipitate is observed, vortex for 5 minutes. For most cells, the maximum tolerance to DMSO is less than 0.5%.

## REFERENCES

1. Wedge et al. (2002) ZD6474 inhibits vascular endothelial growth factor signaling, angiogenesis, and tumor growth following oral administration. *Cancer Res.* 62(16):4645-55.
2. Yoshikawa et al. (2009) Vandetanib (ZD6474), an inhibitor of VEGFR and EGFR signalling, as a novel molecular-targeted therapy against cholangiocarcinoma. *Br J Cancer.* 100(8):1257-66.
3. Sarkar et al. (2010) ZD6474, a dual tyrosine kinase inhibitor of EGFR and VEGFR-2, inhibits MAPK/ERK and AKT/PI3-K and induces apoptosis in breast cancer cells. *Cancer Biol Ther.* 9(8):592-603.