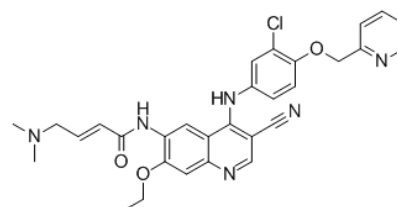


Product Name : Neratinib
Cat. No. : PC-45813
CAS No. : 698387-09-6
Molecular Formula : C₃₀H₂₉ClN₆O₃
Molecular Weight : 557.0427
Target : EGFR
Solubility : DMSO: 6.4 mg/mL (Need ultrasonic)



Biological Activity

Neratinib (HKI-272) is a potent, highly selective, irreversible **HER2** and **EGFR** inhibitor with IC₅₀ of 59 nM and 92 nM in cell-free assays.

Neratinib (HKI-272) weakly inhibits KDR and Src (IC₅₀=0.8 and 1.4 μM), no significant inhibition to Akt, CDK1/2/4, IKK-2, MK-2, PDK1, c-Raf and c-Met.

Neratinib (HKI-272) inhibits downstream signal transduction events and cell cycle regulatory pathways, leads to arrest at the G(1)-S phase transition, decreases cell proliferation.

Neratinib (HKI-272) is active in HER-2- and EGFR-dependent tumor xenograft models, orally bioavailable.

References

Rabindran SK, et al. **Cancer Res.** 2004 Jun 1;64(11):3958-65.

Tsou HR, et al. **J Med Chem.** 2005 Feb 24;48(4):1107-31.

Ji H, et al. **Proc Natl Acad Sci U S A.** 2006 May 16;103(20):7817-22.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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