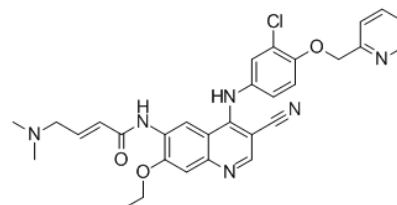


**Product Name** : Neratinib  
**Cat. No.** : PC-45813  
**CAS No.** : 698387-09-6  
**Molecular Formula** : C<sub>30</sub>H<sub>29</sub>ClN<sub>6</sub>O<sub>3</sub>  
**Molecular Weight** : 557.0427  
**Target** : EGFR  
**Solubility** : DMSO: 6.4 mg/mL (Need ultrasonic)



## Biological Activity

Neratinib (HKI-272) is a potent, highly selective, irreversible **HER2** and **EGFR** inhibitor with IC<sub>50</sub> of 59 nM and 92 nM in cell-free assays.

Neratinib (HKI-272) weakly inhibits KDR and Src (IC<sub>50</sub>=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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