



LKT Laboratories, Inc.

Neratinib

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## Product Information

**Product ID** N1868

**CAS No.** 698387-09-6

**Chemical Name** (2E)-N-[4-[[3-chloro-4-[(pyridin-2-yl)methoxy]phenyl]amino]-3-cyano-7-ethoxyquinolin-6-yl]-4-(dimethylamino)but-2-enamide

**Synonym** HKI-272, WAY-179272

**Formula** C<sub>30</sub>H<sub>29</sub>ClN<sub>6</sub>O<sub>3</sub>

**Formula Wt.** 557.04

**Melting Point**

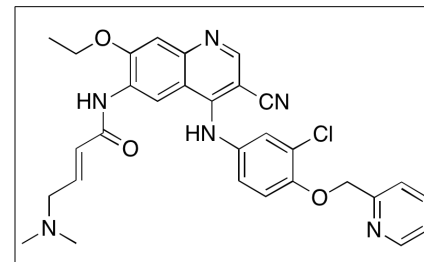
**Purity** ≥98%

**Solubility**

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Neratinib is an irreversible EGFR inhibitor that displays anticancer chemotherapeutic benefit in the treatment of HER2 positive breast cancers and non-small cell lung cancer (NSCLC). Neratinib prevents ligand-induced receptor dimerization by targeting a cysteine residue in the ATP binding pocket of the receptor. In pre-clinical models, this compound induces cell cycle arrest and decreases cell proliferation.



**Bulk quantities available upon request**

Product ID	Size
N1868	1 mg
N1868	5 mg
N1868	10 mg
N1868	25 mg
N1868	100 mg

**References** López-Tarruella S, Jerez Y, Márquez-Rodas I, et al. Neratinib (HKI-272) in the treatment of breast cancer. *Future Oncol.* 2012 Jun;8(6):671-81. PMID: 22764764.

Sánchez-Martín M, Pandiella A. Differential action of small molecule HER kinase inhibitors on receptor heterodimerization: therapeutic implications. *Int J Cancer.* 2012 Jul 1;131(1):244-52. PMID: 21826647.

Wong KK, Fracasso PM, Bukowski RM, et al. A phase I study with neratinib (HKI-272), an irreversible pan ErbB receptor tyrosine kinase inhibitor, in patients with solid tumors. *Clin Cancer Res.* 2009 Apr 1;15(7):2552-8. PMID: 19318484.

Rabindran SK, Discafani CM, Rosfjord EC, et al. Antitumor activity of HKI-272, an orally active, irreversible inhibitor of the HER-2 tyrosine kinase. *Cancer Res.* 2004 Jun 1;64(11):3958-65. PMID: 1517300.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.