



LKT Laboratories, Inc.

Lapatinib free base

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## Product Information

Product ID L0362

CAS No. 231277-92-2

**Chemical Name**

Synonym GSK572016, GW572016

Formula  $C_{29}H_{26}ClFN_4O_4S$

Formula Wt. 581.06

Melting Point

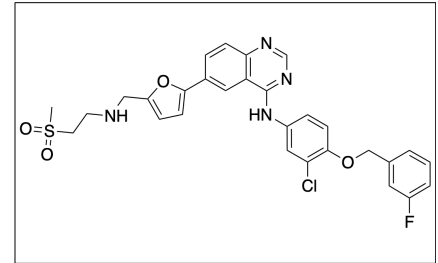
Purity  $\geq 98\%$

Solubility

Store Temp  $-20^{\circ}C$

Ship Temp Ambient

**Description** Lapatinib is an inhibitor of EGFR/HER2 (ErbB2) that is currently in clinical trials as a co-administered treatment with other chemotherapeutics. Lapatinib exhibits anticancer chemotherapeutic benefit, inducing apoptosis in breast cancer cells. This compound also downregulates expression of thymidylate synthase in vitro.



Product ID	Size
L0362	5 mg
L0362	25 mg
L0362	100 mg

**References** Janni W, Sarosiek T, Karaszewska B, et al. A phase II, randomized, multicenter study evaluating the combination of lapatinib and vinorelbine in women with ErbB2 overexpressing metastatic breast cancer. *Breast Cancer Res Treat.* 2014 Jan 9. [Epub ahead of print]. PMID: 24402830.

Kostyal D, Welt RS, Danko J, et al. Trastuzumab and lapatinib modulation of HER2 tyrosine/threonine phosphorylation and cell signaling. *Med Oncol.* 2012 Sep;29(3):1486-94. PMID: 21769502.

Kim HP, Yoon YK, Kim JW, et al. Lapatinib, a dual EGFR and HER2 tyrosine kinase inhibitor, downregulates thymidylate synthase by inhibiting the nuclear translocation of EGFR and HER2. *PLoS One.* 2009 Jun 16;4(6):e5933. PMID: 19529774.

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