

Product Name	: Lapatinib
Synonyms	: GW572016; GW-572016; GW 572016
Cat No.	: M13650
CAS Number	: 231277-92-2
Molecular Formula	: C ₂₉ H ₂₆ ClF ₄ N ₄ O ₄ S
Formula Weight	: 581.06
Chemical Name	: 4-Quinazolinamine, N-[3-chloro-4-[(3-fluorophenyl)methoxy]phenyl]-6-[5-[[[2-(methylsulfonyl)ethyl]amino]methyl]-2-furanyl]-
Description	A reversible, selective dual tyrosine kinase inhibitor of both EGFR and ErbB2 with IC₅₀ of 10.8 and 9.2 nM in cell-free assays, respectively; displays no significant activity against other kinases, including ErbB4, c-Src, and c-Raf1; reduces tyrosine phosphorylation of EGFR and erbB2, and inhibits activation of Erk1/2 and AKT both in vitro and in vivo; inhibits tumor xenograft growth of the HN5 and BT474 cells in a dose-responsive manner at 30 and 100 mg/kg; orally active. Breast Cancer Approved
Pathway	: Angiogenesis
Target	: EGFR
Receptor	: C-Raf-1; c-Src; EGFR; HER2/ErbB2
Solubility	: DMSO: ≥ 39 mg/mL
SMILES	: <chem>CS(=O)(=O)CCNCC1=CC=C(O1)C1=CC2=C(C=C1)N=CN=C2NC1=CC(Cl)=C(OCC2=CC(F)=CC=C2)C=C1</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Xia W, et al. Oncogene. 2002 Sep 12;21(41):6255-63. | 2. Rusnak DW, et al. Mol Cancer Ther. 2001 Dec;1(2):85-94. | 3. Konecny GE, et al. Cancer Res. 2006 Feb 1;66(3):1630-9.