

Catalog # 10-2147

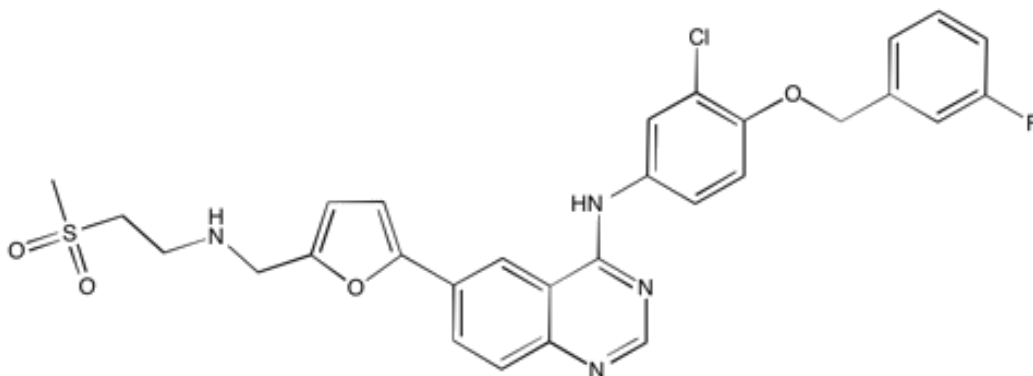
Lapatinib

CAS# 231277-92-2

N-[3-Chloro-4-[(3-fluorophenyl)methoxy]phenyl]-6-[5-[(2-methylsulfonyl)ethylamino)methyl]-2-furyl]quinazolin-4-amine

GW-572016

Lot # FBS1011



Potent inhibitor of EGFR kinase (K_i=3 nM), Erb-2 kinase (K_i=13 nM) Erb-4 kinase (K_i=347 nM)¹. Clinically useful agent for treatment of breast cancer.^{2,3} Cell permeable

- 1) Wood *et al.* (2004), *A unique structure for epidermal growth factor receptor bound to GW572016 (Lapatinib): relationships among protein conformation, inhibitor off-rate, and receptor activity in tumor cells*; *Cancer Res.*, **64** 6652
- 2) Burris *et al.* (2004), *Dual kinase inhibition in the treatment of breast cancer: initial experience with the EGFR/ErbB-2 inhibitor lapatinib*; *Oncologist*, **9** 10
- 3) Chu *et al.* (2005), *The dual ErbB1/ErbB2 inhibitor, lapatinib (GW572016) cooperates with tamoxifen to inhibit both cell proliferation- and estrogen-dependent gene expression in antiestrogen-resistant breast cancer*; *Cancer Res.*, **65** 18

PHYSICAL DATA

Molecular Weight:	581.06
Molecular Formula:	C ₂₉ H ₂₆ ClFN ₄ O ₄ S
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 200 mg/ml),
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied, desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month.

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