

## Catalog # 10-2147 Lapatinib

CAS# 231277-92-2

N-[3-Chloro-4-[(3-fluorophenyl)methoxy]phenyl]-6-[5-[(2-methylsulfonylethylamino)methyl]-2-furyl]quinazolin-4-amine GW-572016

Lot # X101906



Potent inhibitor of EGFR kinase (Ki=3 nM), Erb-2 kinase (Ki=13 nM) Erb-4 kinase (Ki=347 nM)<sup>1</sup>. Clinically useful agent for treatment of breast cancer<sup>2-3</sup>. 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 <sub>29</sub> H <sub>26</sub> CIFN <sub>4</sub> O <sub>4</sub> 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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Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462 www.focusbiomolecules.com