



Catalog #10-4510

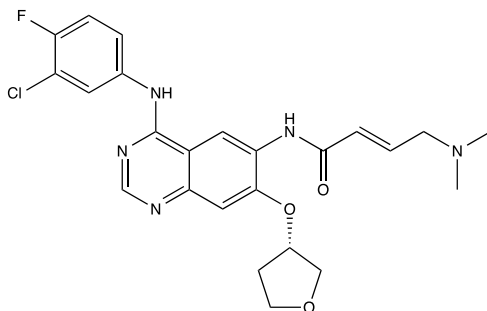
Afatinib

CAS# 850140-72-6

N-[4-[(3-Chloro-4-fluorophenyl)amino]-7-[[[(3*S*)-tetrahydro-3-furanyl]oxy]-6-quinazoliny]-4(dimethylamino)-2*E*-butenamide

BIBW2992;

Lot # FBS2128



Afatinib is a clinically useful kinase inhibitor approved for the treatment of non-small cell lung cancer. It is a potent and highly selective inhibitor of mutant and wild-type EGFR (IC₅₀ = 0.5 nM) and HER2 (IC₅₀ = 14 nM).

- 1) Li *et al.* (2008), *BIBW2992, an irreversible EGFR/HER2 inhibitor highly effective in preclinical lung cancer models*; *Oncogene* **27** 4702

PHYSICAL DATA

Molecular Weight:	485.94
Molecular Formula:	C ₂₄ H ₂₅ ClFN ₅ O ₃
Purity:	>99% by HPLC
	NMR: Conforms
Solubility:	DMSO (>25 mg/mL); ethanol (25 mg/mL)
Physical Description:	Pale Yellow solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO and ethanol may be stored at -20°C for up to 2 months.

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Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

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