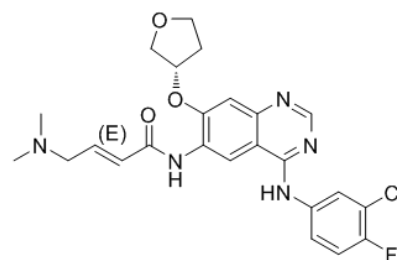


**Product Name** : Afatinib  
**Cat. No.** : PC-42499  
**CAS No.** : 850140-72-6  
**Molecular Formula** : C<sub>24</sub>H<sub>25</sub>ClFN<sub>5</sub>O<sub>3</sub>  
**Molecular Weight** : 485.9384  
**Target** : EGFR  
**Solubility** : 10 mM in DMSO



## Biological Activity

Afatinib (BIBW 2992) is an irreversible, dual **EGFR/HER2** inhibitor with IC<sub>50</sub> of 0.5/0.4/10/14 nM for wt EGFR/EGFR L858R/EGFR L858R+T790M/HER2 respectively.

Afatinib (BIBW 2992) shows high selectivity over HGFR, c-Src, β-InsRK, VEGFR2.

Afatinib (BIBW 2992) suppresses transformation in isogenic cell-based assays, inhibits survival of cancer cell lines and induces tumor regression in xenograft and transgenic lung cancer models.

## References

Li D, et al. *Oncogene*. 2008 Aug 7;27(34):4702-11.

Perera SA, et al. *Proc Natl Acad Sci U S A*. 2009 Jan 13;106(2):474-9.

Takezawa K, et al. *Mol Cancer Ther*. 2010 Jun;9(6):1647-56.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

E-mail: tech@probechem.com