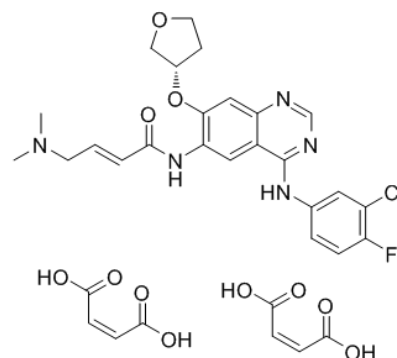


Product Name : Afatinib dimaleate
Cat. No. : PC-42500
CAS No. : 850140-73-7
Molecular Formula : C₃₂H₃₃ClFN₅O₁₁
Molecular Weight : 718.0827
Target : EGFR
Solubility : DMSO: ≥ 35 mg/mL



Biological Activity

Afatinib (BIBW 2992) dimaleate is an irreversible, dual **EGFR/HER2** inhibitor with IC₅₀ of 0.5/0.4/10/14 nM for wt EGFR/EGFR L858R/EGFR L858R+T790M/HER2 respectively.

Afatinib shows high selectivity over HGFR, c-Src, β-InsRK, VEGFR2.

Afatinib 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!

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