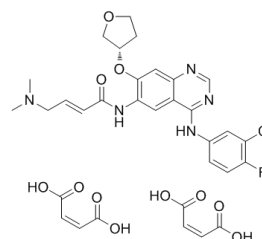


Product Name : Afatinib dimaleate
Synonyms : BIBW 2992MA2;BIBW-2992;BIBW2992;BIBW 2992;Afatinib
Cat No. : M16171
CAS Number : 850140-73-7
Molecular Formula : C₃₂H₃₃ClFN₅O₁₁
Formula Weight : 718.08



Chemical Name : 2-Butenamide, N-[4-[(3-chloro-4-fluorophenyl)amino]-7-[[[(3S)-tetrahydro-3-furanyl]oxy]-6-quinazolinyl]-4-(dimethylamino)-, (2E)-, (2Z)-2-butenedioate (1:2) (9Cl)

Description : 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; shows high selectivity over HGFR, c-Src, β-InsRK, VEGFR2; suppresses transformation in isogenic cell-based assays, inhibits survival of cancer cell lines and induces tumor regression in xenograft and transgenic lung cancer models. Lung Cancer Approved

Pathway : Angiogenesis

Target : EGFR

Receptor : EGFR(L858R);EGFR(L858R/T790M);EGFR(wt);HER2

Solubility : DMSO: ≥ 35 mg/mL

SMILES : CN(C/C=C/C(=O)NC1=C(C=C2N=CN=C(C2=C1)NC3=CC(=C(C=C3)F)Cl)O[C@@H]4COCC4)C.C(=C(C(=O)O))C(=O)O.C(=C(C(=O)O))C(=O)O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Li D, et al. Oncogene. 2008 Aug 7;27(34):4702-11. | 2. Perera SA, et al. Proc Natl Acad Sci U S A. 2009 Jan 13;106(2):474-9. | 3. Takezawa K, et al. Mol Cancer Ther. 2010 Jun;9(6):1647-56.