

## Product Information

### EGFR-HER2 inhibitor BIBW2992, Purity $\geq 98\%$

**Cat. No.:** X23-10-ZQ1031

**Size:** 5 mg; 10 mg; 25 mg; 50 mg; 100 mg

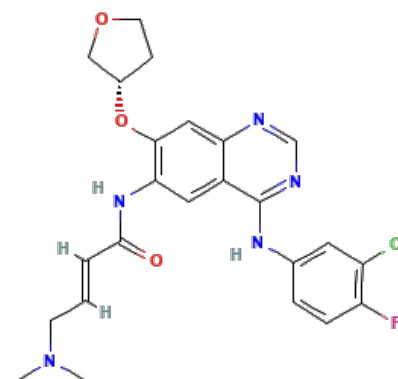
**MDL:** MFCD12407405

**CAS Number:** 439081-18-2

**Compound CID:** 10184653

**Synonym:** Afatinib; 439081-18-2; 850140-72-6; Tovok; BIBW2992; Tomtovok; BIBW 2992; EGFR-HER2 inhibitor

**This product is for research use only and is not intended for diagnostic use.**



#### Product Information

<b>Description</b>	BIBW2992 is a potent and specific inhibitor of the tyrosine kinase activity of EGFR. It targets EGFR (L858R), EGFR (L858R/T790M), EGFR (wt), and HER2.
<b>Molecular Weight</b>	485.9
<b>Molecular Formula</b>	C <sub>24</sub> H <sub>25</sub> ClFN <sub>5</sub> O <sub>3</sub>
<b>Targets</b>	EGFR (L858R): 0.4 nM; EGFR (L858R/T790M): 10 nM; EGFR (wt): 0.5 nM; HER2: 14 nM
<b>IUPAC Name</b>	(E)-N-[4-(3-Chloro-4-fluoroanilino)-7-[(3S)-oxolan-3-yl]oxyquinazolin-6-yl]-4-(dimethylamino)but-2-enamide
<b>InChI</b>	InChI=1S/C24H25ClFN5O3/c1-31(2)8-3-4-23(32)30-21-11-17-20(12-22(21)34-16-7-9-33-13-16)27-14-28-24(17)29-15-5-6-19(26)18(25)10-15/h3-6,10-12,14,16H,7-9,13H2,1-2H3,(H,30,32)(H,27,28,29)/b4-3+/t16-/m0/s1
<b>InChI Key</b>	ULXXDDBFHOBEGA-CWDCEQMOSA-N
<b>Canonical SMILES</b>	CN(C)CC=CC(=O)NC1=C(C=C2C(=C1)C(=NC=N2)NC3=CC(=C(C=C3)F)Cl)OC4CCOC4
<b>Isomeric SMILES</b>	CN(C)C/C=C/C(=O)NC1=C(C=C2C(=C1)C(=NC=N2)NC3=CC(=C(C=C3)F)Cl)O[C@H]4CCOC4
<b>Form</b>	Lyophilized powder
<b>Purity</b>	$\geq 98\%$
<b>Identity</b>	Confirmed by NMR/HPLC/MS.
<b>Stability</b>	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
<b>Applications</b>	BIBW2992 (Afatinib) is used to inhibit EGFR and HER2, useful in clinical cancer research.
<b>Storage</b>	Store at -20°C.



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