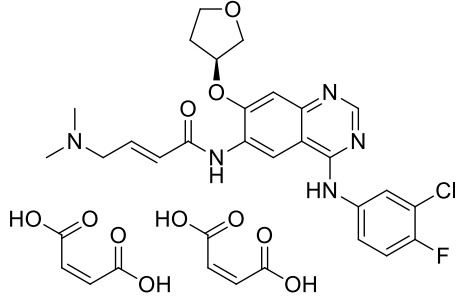




## Certificate of Analysis

<b>MedKoo Cat#:</b>	<b>Product Name:</b>	<b>Lot#:</b>
120204	Afatinib dimaleate	TZC40909

<b>Chemical name</b>	
(S,E)-N-(4-((3-chloro-4-fluorophenyl)amino)-7-((tetrahydrofuran-3-yl)oxy)quinazolin-6-yl)-4-(dimethylamino)but-2-enamide dimaleate	
<b>Synonyms</b>	
BIBW-2992; BIBW 2992; BIBW2992. Afatinib dimaleate; trade name: Gilotrif, Tomtovok and Tovok.	
<b>Chemical structure</b>	<b>CAS# and Theoretical analysis</b>
	MedKoo Cat#: 120204 Name: Afatinib dimaleate CAS#: 850140-73-7 Lot#: TZC40909 Chemical Formula: C <sub>32</sub> H <sub>33</sub> ClFN <sub>5</sub> O <sub>11</sub> Molecular Weight: 718.08 <i>Afatinib free base</i> Chemical Formula: C <sub>24</sub> H <sub>25</sub> ClFN <sub>5</sub> O <sub>3</sub> Exact Mass: 485.16300; Molecular Weight: 485.94

Analysis item	Specifications / Results
Appearance	White to off-white solid powder
Structure	<sup>1</sup> H-NMR analysis matches the structure. MS analysis gives the correct molecule weight. Both NMR and MS data are consistent with those reported in the literature.
Purity (HPLC)	>98.0%
Solubility	Soluble in DMSO
Conclusion	This product conforms with MedKoo's quality standards
Shipping condition	Shipped under ambient temperature as non-hazardous chemical. This product is stable for a few weeks during ordinary shipping and time spent in customs.
Storage condition	Short term storage (weeks): 0 – 4 °C under dry condition Long term storage (months): -20 °C under dry condition
Shelf life	At least 5 years if properly stored.

**CAUTION: NOT FULLY TESTED. FOR RESEARCH ONLY, NOT FOR HUMAN USE**