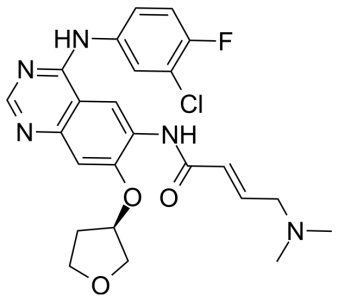
(R)-Afatinib

Cat. No.:	HY-10261E
CAS No.:	439081-17-1
Molecular Formula:	$C_{24}H_{25}ClFN_5O_3$
Molecular Weight:	485.94
Target:	EGFR; c-Met/HGFR; p38 MAPK
Pathway:	JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; MAPK/ERK Pathway
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

(R)-Afatinib ((R)-BIBW 2992) is the Afatinib isomer. Afatinib (HY-10261) is an orally active, potent and irreversible dual specificity inhibitor of ErbB family (EGFR and HER2), with IC_{50} values of 0.5 nM, 0.4 nM, 10 nM and 14 nM for $EGFR^{wt}$, $EGFR^{L858R}$, $EGFR^{L858R/T790M}$ and HER2, respectively. Afatinib can be used for the research of esophageal squamous cell carcinoma (ESCC), non-small cell lung cancer (NSCLC) and gastric cancer[1].

REFERENCES

[1]. Li D, et al. BIBW2992, an irreversible EGFR/HER2 inhibitor highly effective in preclinical lung cancer models. Oncogene. 2008 Aug 7;27(34):4702-11.

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