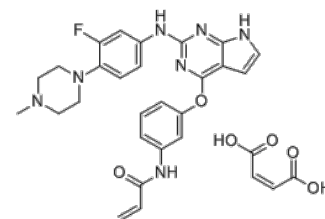


**Product Name** : Avitinib maleate  
**Cat. No.** : PC-61450  
**CAS No.** : 1557268-88-8  
**Molecular Formula** : C<sub>30</sub>H<sub>30</sub>FN<sub>7</sub>O<sub>6</sub>  
**Molecular Weight** : 603.611  
**Target** : EGFR  
**Solubility** : 10 mM in DMSO



## Biological Activity

Avitinib maleate (AC-0010MA, AC0010 maleate) is an orally available, irreversible, and **mutant-selective EGFR** inhibitor with IC<sub>50</sub> of 0.18 nM against EGFR L858R/T790M.

Avitinib displays 43-fold greater potency over wild-type EGFR (IC<sub>50</sub>=7.68 nM).

Avitinib selectively inhibits mutant EGFR phosphorylation (IC<sub>50</sub> =7.3 nM and 2.8 nM) in NCI-H1975 and NIH/3T3\_TC32T8 cells, 115- and 298-fold more sensitive than that of the inhibition of wild type EGFR in A431.

Avitinib overcomes T790M-induced resistance in animal models and lung cancer patients without hyperglycemia or other severe adverse effects.

## References

Xu X, et al. *Mol Cancer Ther.* 2016 Nov;15(11):2586-2597.

Wang W, et al. *J Pharm Biomed Anal.* 2017 May 30;139:205-214.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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