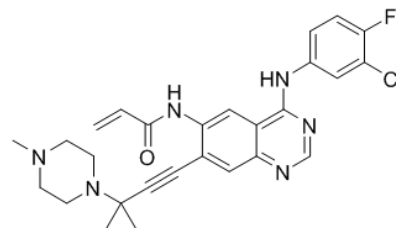


**Product Name** : AV-412 free base  
**Cat. No.** : PC-42546  
**CAS No.** : 451492-95-8  
**Molecular Formula** : C<sub>27</sub>H<sub>28</sub>ClFN<sub>6</sub>O  
**Molecular Weight** : 507.0022  
**Target** : EGFR  
**Solubility** : DMSO: ≥ 50 mg/mL



## Biological Activity

AV-412 free base (MP412) is a potent dual inhibitor of **EGFR** and **ErbB2**, inhibits EGFR/EGFR L858R/EGFR T790M/EGFR L858R, T790M/ErbB2 with IC<sub>50</sub> of 1.5/0.5/0.8/2.3/19 nM respectively.

AV-412 also inhibits Abl (IC<sub>50</sub>=41 nM), weakly inhibits Flt3 and Src.

AV-412 inhibits autophosphorylation of EGFR and ErbB2 with IC<sub>50</sub> of 43 and 282 nM.

AV-412 inhibits EGF-dependent cell proliferation with IC<sub>50</sub> of 100 nM; active in cancer xenograft models.

## References

Suzuki T, et al. Cancer Sci. 2007 Dec;98(12):1977-84.

Suzuki T, et al. Cancer Sci. 2009 Aug;100(8):1526-31.

Zhou Y, et al. Nat Biotechnol. 2010 Jan;28(1):71-8.

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

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