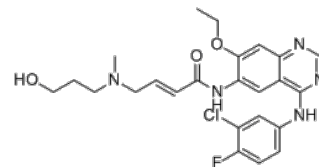


**Product Name** : ER121  
**Cat. No.** : PC-20174  
**CAS No.** : 2360839-74-1  
**Molecular Formula** : C<sub>24</sub>H<sub>27</sub>ClFN<sub>5</sub>O<sub>3</sub>  
**Molecular Weight** : 487.96  
**Target** : EGFR  
**Solubility** : 10 mM in DMSO



### Biological Activity

ER121 (ER-121) is a potent, dual kinase inhibitor targeting both mutant **EGFR** and activated erbB2 with IC<sub>50</sub> of 0.08/0.15 nM (EGFR C797S/EGFR WT, ATP=10 uM).

ER121 exhibits kinase inhibitory action in vitro for EGFR mutants with the T790 M and C797S mutations with IC<sub>50</sub> value is in the sub-nM or nM region (10 uM ATP).

ER121 inhibits EGFR mutants more effectively than AZD9291.

ER121 (5 mg/kg and 15 mg/kg, oral) inhibited tumor growth in mice exhibiting C797S mutant tumors.

ER121 (5 mg/kg and 15 mg/kg, oral or i.p.) exhibits anti-tumor activity against Herceptin resistant breast tumors.

### References

Goel PN, et al. *Biochem Biophys Res Commun.* 2023 Apr 9;651:39-46.

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

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