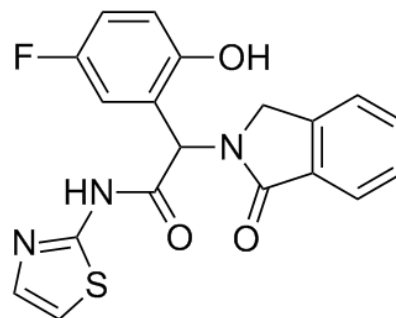


**Product Name** : EAI-045  
**Cat. No.** : PC-42087  
**CAS No.** : 1942114-09-1  
**Molecular Formula** : C<sub>19</sub>H<sub>14</sub>FN<sub>3</sub>O<sub>3</sub>S  
**Molecular Weight** : 383.3961  
**Target** : EGFR  
**Solubility** : DMSO: ≥ 28 mg/mL



### Biological Activity

EAI-045 (EAI045) is a potent, mutant-selective allosteric **EGFR** inhibitor with IC<sub>50</sub> of 3 nM for double mutant L858R/T790M in biochemical assays at 1 mM ATP.

EAI-045 (EAI045) displays >1000-fold selectivity versus wild type EGFR, also inhibits L858R and T790M with IC<sub>50</sub> of 76 and 49 nM.

EAI-045 (EAI045) potently inhibits EGFR Y1173 phosphorylation in H1975 cells (EC<sub>50</sub>=2 nM).

EAI-045 (EAI045) exhibits true mechanistic synergy combined with cetuximab in mouse models of lung cancer driven by EGFR(L858R/T790M) and by EGFR(L858R/T790M/C797S).

### References

Jia Y, et al. *Nature*. 2016 Jun 2;534(7605):129-32.

Wang S, et al. *J Hematol Oncol*. 2016 Jul 22;9(1):59.

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

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