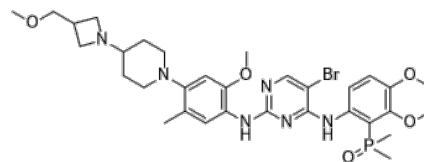


**Product Name** : HS-10375  
**Cat. No.** : PC-24741  
**CAS No.** : 2567456-25-9  
**Molecular Formula** : C<sub>32</sub>H<sub>42</sub>BrN<sub>6</sub>O<sub>5</sub>P  
**Molecular Weight** : 701.60  
**Target** : EGFR  
**Solubility** : 10 mM in DMSO



CAS: 2567456-25-9

## Biological Activity

HS-10375 is a potent, selective **EGFR C797S** tyrosine kinase inhibitor, shows potent inhibitory activity against EGFR C797S mutations (Del19/T790M/C797S, L858R/T790M/C797S, Del19/C797S, and L858R/C797S), and common and/or T790M mutations (Del19, T790M, L858R/T790M, and Del19/T790M) with IC<sub>50</sub> < 1.5 nM.

HS-10375 shows weaker activity against wild type EGFR with IC<sub>50</sub> of 9.1 nM.

HS-10375 binds deeply in the ATP-binding pocket and interacts with Met790 and Lys745 of EGFR T790M/C797S.

HS-10375 shows strong cell growth inhibition against Ba/F3 EGFR Del19/T790M/C797S cells with IC<sub>50</sub> of 24.87 nM, but the IC<sub>50</sub> of HS-10375 against EGFR-wildtype A431 cells is 148.93 nM.

HS-10375 potently inhibits EGFR Del19/T790M/C797S phosphorylation with an IC<sub>50</sub> of 24 nM, at least 139 times more potently than gefitinib, afatinib, or osimertinib.

HS-10375 robustly inhibits EGFR signaling and phosphorylated EGFR (p-EGFR) at 100-1000 nM against Ba/F3 EGFR-L858R, L858R/C797S, L858R/T790M/C797S, Del19/C797S, and Del19/T790M/C797S, induces remarkable apoptosis against EGFR that harbored C797S.

HS-10375 (20 mg/kg, oral) showed dose-dependent inhibition of tumor growth in mice bearing PC9 EGFR-Del19/T790M/C797S, Ba/F3 EGFR-Del19/T790M/C797S, and Ba/F3 EGFR L858R/T790M/C797S xenografts or allografts.

## References

Zhan J, et al. *J Transl Med*. 2025 Jun 4;23(1):628.

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

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