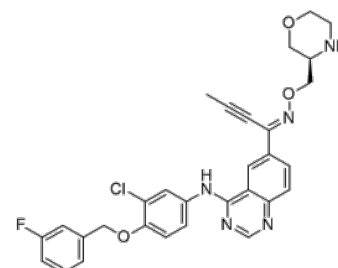


Product Name : Epertinib
Cat. No. : PC-63309
CAS No. : 908305-13-5
Molecular Formula : C₃₀H₂₇ClFN₅O₃
Molecular Weight : 560.026
Target : EGFR
Solubility : 10 mM in DMSO



Biological Activity

Epertinib (S-222611) is a novel potent, orally active, reversible **EGFR** and **HER2** inhibitor with IC₅₀ of 1.48, 7.15 and 2.49 nM for EGFR, HER2 and HER4, respectively.

Epertinib (S-222611) does not inhibit KDR, IGF1R, SRC, KIT, PDGFRβ.

Epertinib (S-222611) inhibits phosphorylation of EGFR and HER2 kinases in NCI-N87 cells with IC₅₀ of 4.5 and 1.6 nM, shows growth inhibition of NCI-N87 cell with IC₅₀ of 8.3 nM.

Epertinib (S-222611) shows potent antitumor activity over lapatinib in a variety of xenograft models, exhibits excellent activity and could be effective against bone and brain metastasis.

References

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Spicer J, et al. *Eur J Cancer.* 2015 Jan;51(2):137-45.

Tanaka Y, et al. *Sci Rep.* 2018 Jan 10;8(1):343.

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

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