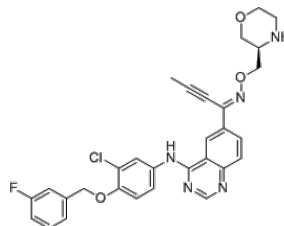


Product Name	: Epertinib
Synonyms	: S-222611;S222611
Cat No.	: M16528
CAS Number	: 908305-13-5
Molecular Formula	: C30H27ClFN5O3
Formula Weight	: 560.03
Chemical Name	: (R,Z)-1-(4-((3-chloro-4-((3-fluorobenzyl)oxy)phenyl)amino)quinazolin-6-yl)but-2-yn-1-one O-morpholin-3-ylmethyl oxime
Description	Epertinib (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; does not inhibit KDR, IGF1R, SRC, KIT, PDGFRβ; 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; shows potent antitumor activity over lapatinib in a variety of xenograft models, exhibits excellent activity and could be effective against bone and brain metastasis. Breast Cancer Phase 2 Clinical
Pathway	: Angiogenesis
Target	: EGFR
Receptor	: EGFR
Solubility	: —
SMILES	: <chem>CC#C/C(C1=CC2=C(NC3=CC=C(C(OC4=CC=CC(F)=C4)C(Cl)=C3)N=CN=C2C=C1)=NOC[C@@H]5NCCOC5</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:



1. Tanaka H, et al. Cancer Sci. 2014 Aug;105(8):1040-8. | 2. Spicer J, et al. Eur J Cancer. 2015 Jan;51(2):137-45. | 3. Tanaka Y, et al. Sci Rep. 2018 Jan 10;8(1):343.