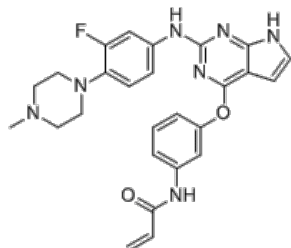


Product Name	: Avitinib	
Synonyms	: AC-0010; AC0010	
Cat No.	: M12212	
CAS Number	: 1557267-42-1	
Molecular Formula	: C ₂₆ H ₂₆ N ₇ O ₂	
Formula Weight	: 487.54	
Chemical Name	N-[3-[[2-[[3-Fluoro-4-(4-methyl-1-piperazinyl)phenyl]amino]-7H-pyrrolo[2,3-d]pyrimidin-4-yl]oxy]phenyl]-2-propenamide	
Description	Avitinib (AC-0010, AC0010) is an orally available, irreversible, and mutant-selective EGFR inhibitor with IC ₅₀ of 0.18 nM against EGFR L858R/T790M; displays 43-fold greater potency over wild-type EGFR (IC ₅₀ =7.68 nM); selectively inhibits mutant EGFR phosphorylation (IC ₅₀ =7.3 nM and 2.8 nM) in NCI-H1975 and NIH/3T3_TC32T8 cells, 115- and 298-fold more sensitive than that of the inhibition of wild type EGFR in A431; overcomes T790M-induced resistance in animal models and lung cancer patients without hyperglycemia or other severe adverse effects. Lung Cancer Phase 2 Clinical	
Pathway	: Angiogenesis	
Target	: EGFR	
Receptor	: EGFR	
Solubility	: DMSO: 88 mg/mL (180.5 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)	
SMILES	: <chem>C=CC(NC1=CC=CC(OC2=C3C(NC=C3)=NC(NC4=CC=C(N5CCN(C)CC5)C(F)=C4)=N2)=C1)=O</chem>	
Storage	: (-20°C)	
Stability	: ≥ 2 years	
Reference	:	

1. Xu X, et al. Mol Cancer Ther. 2016 Nov;15(11):2586-2597. 2. Wang W, et al. J Pharm Biomed Anal. 2017 May 30;139:205-214.