

Product Name	: Avitinib maleate
Synonyms	: AC-0010MA; AC0010 maleate
Cat No.	: M12213
CAS Number	: 1557268-88-8
Molecular Formula	: C ₃₀ H ₃₀ N ₇ O ₆
Formula Weight	: 603.61
Chemical Name	: N-(3-((2-((3-fluoro-4-(4-methylpiperazin-1-yl)phenyl)amino)-7H-pyrrolo[2,3-d]pyrimidin-4-yl)oxy)phenyl)acrylamide maleate
Description	Avitinib maleate (AC-0010MA, AC0010 maleate) is orally available, irreversible, and mutant-selective EGFR inhibitor with IC₅₀ of 0.18 nM against EGFR L858R/T790M; displays 43-fold greater potency over wild-type EGFR (IC₅₀=7.68 nM); selectively inhibits mutant EGFR phosphorylation (IC₅₀ =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 : ≥ 300 mg/mL 497.02 mM
SMILES	: CN1CCN(CC1)C2=C(C=C(C=C2)NC3=NC4=C(C=CN4)C(=N3)OC5=CC=CC(=C5)NC(=O)C=C)F.C(=CC(=O)O)C(=O)O
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.