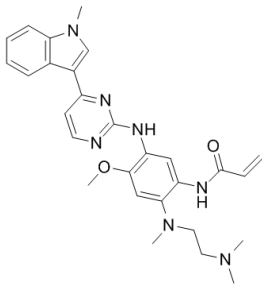


Product Name	: AZD-9291	
Synonyms	: Osimertinib; Mereletinib; AZD9291; AZD 9291	
Cat No.	: M11762	
CAS Number	: 1421373-65-0	
Molecular Formula	: C ₂₈ H ₃₃ N ₇ O ₂	
Formula Weight	: 499.61	
Chemical Name	2-Propenamide, N-[2-[[2-(dimethylamino)ethyl]methylamino]-4-methoxy-5-[[4-(1-methyl-1H-indol-3-yl)-2-pyrimidinyl]amino]phenyl]-	
Description	A potent, selective, third-generation irreversible inhibitor of mutant EGFR with IC ₅₀ s of 1/12/5 nM for L858R-T790M/L858R/L861Q respectively; weak activity against wt EGFR (IC ₅₀ =184 nM); inhibits signaling pathways and cellular growth in both EGFRm(+) and EGFRm(+)/T790M(+) mutant cell lines in vitro; exhibits tumor regression in EGFR-mutant tumor xenograft and transgenic models; orally active. Lung Cancer Approved	
Pathway	: Angiogenesis	
Target	: EGFR	
Receptor	: EGFR(Exon19deletion); EGFR(L858R/T790M)	
Solubility	: DMSO: ≥ 30 mg/mL	
SMILES	: <chem>COC1=C(NC2=NC=CC(=N2)C2=CN(C)C3=CC=CC=C23)C=C(NC(=O)C=C)C(=C1)N(C)CCN(C)C</chem>	
Storage	: (-20°C)	
Stability	: ≥ 2 years	
Reference	:	

1. Finlay MR, et al. J Med Chem. 2014 Oct 23;57(20):8249-67. | 2. Cross DA, et al. Cancer Discov. 2014 Sep;4(9):1046-61. | 3. Eberlein CA, et al. Cancer Res. 2015 Jun 15;75(12):2489-500.