

Product Name	: Sapitinib
Synonyms	: AZD-8931;AZD8931
Cat No.	: M16163
CAS Number	: 848942-61-0
Molecular Formula	: C ₂₃ H ₂₅ ClF ₅ O ₃
Formula Weight	: 473.93
Chemical Name	: 1-Piperidineacetamide, 4-[[4-[(3-chloro-2-fluorophenyl)amino]-7-methoxy-6-quinazolinyl]oxy]-N-methyl-
Description	Sapitinib (AZD-8931, AZD8931) is a equipotent, reversible inhibitor of EGFR, ErbB2 and ErbB3 with IC₅₀ of 4. 3 and 4 nM (phosphorylation inhibition), respectively; displays >1,000-fold selectivity over a panel of 206 of kinases, >100-fold selectivity for MNK1 and Flt3; AZD8931 is significantly more potent than gefitinib or lapatinib in specific squamous cell carcinoma of the head and neck and non-small cell lung carcinoma cell lines; inhibits xenograft growth in a range of models while significantly affecting EGFR, erbB2, and erbB3 phosphorylation and downstream signaling pathways, apoptosis, and proliferation. Colon Cancer Phase 2 Clinical
Pathway	: Angiogenesis
Target	: EGFR
Receptor	: EGFR;HER2/ErbB2
Solubility	: DMSO: ≥ 33 mg/mL
SMILES	: <chem>O=C(NC)CN1CCC(OC2=CC3=C(NC4=CC=CC(Cl)=C4F)N=CN=C3C=C2OC)CC1</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Hickinson DM, et al. Clin Cancer Res. 2010 Feb 15; 16(4):1159-69. | 2. Singleton KR, et al. Mol Pharmacol. 2013 Apr; 83(4):882-93. | 3. Barlaam B, et al. ACS Med Chem Lett. 2013 May 31; 4(8):742-6. | 4. Mu Z, et al. J Exp Clin Cancer Res. 2014 May 30; 33:47.

