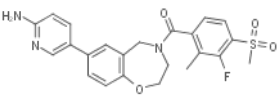


Product Name	: XL388
Synonyms	: XL388; XL-388; XL 388
Cat No.	: M17219
CAS Number	: 1251156-08-7
Molecular Formula	: C ₂₃ H ₂₂ FN ₃ O ₄ S
Formula Weight	: 455.5
Chemical Name	: (7-(6-aminopyridin-3-yl)-2,3-dihydrobenzo[f][1,4]oxazepin-4(5H)-yl)(3-fluoro-2-methyl-4-(methylsulfonyl)phenyl)methanone
Description	 XL388 is a Novel Class of Highly Potent, Selective, ATP-Competitive, and Orally Bioavailable Inhibitors of the Mammalian Target of Rapamycin (mTOR). XL388 inhibited cellular phosphorylation of mTOR complex 1 (p-p70S6K, pS6, and p-4E-BP1) and mTOR complex 2 (pAKT (S473)) substrates. XL388 displayed good pharmacokinetics and oral exposure in multiple species with moderate bioavailability. Oral administration of XL388 to athymic nude mice implanted with human tumor xenografts afforded significant and dose-dependent antitumor activity.
Pathway	: Cytoskeleton/Cell Adhesion Molecules
Target	: Glucokinase
Receptor	: mTOR; mTORC1; mTORC2; CYP2C9; PI3Kα
Solubility	: DMSO : 50 mg/mL. 109.77 mM;
SMILES	: <chem>Cc1c(ccc(c1F)S(=O)(=O)C)C(=O)N1CCOc2c(C1)cc(cc2)c1cnc(cc1)N</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Nicole Miller, et al. Mol Y Ther, 2009, 8(12 Suppl):B146.