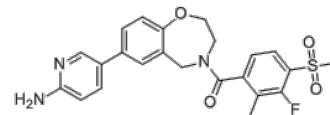


**Product Name** : XL388  
**Cat. No.** : PC-49619  
**CAS No.** : 1251156-08-7  
**Molecular Formula** : C<sub>23</sub>H<sub>22</sub>FN<sub>3</sub>O<sub>4</sub>S  
**Molecular Weight** : 455.50  
**Target** : mTOR  
**Solubility** : 10 mM in DMSO



## Biological Activity

XL388 (XL-388) is a potent, selective and orally bioavailable **mTOR** inhibitor with IC<sub>50</sub> of 9.9 nM.

XL388 displays no significant activity against PI3K members with IC<sub>50</sub> of >3 μM.

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 compound 28 to athymic nude mice implanted with human tumor xenografts afforded significant and dose-dependent antitumor activity.

## References

Takeuchi CS, et al. *J Med Chem*. 2013 Mar 28;56(6):2218-34.

Zhu YR, et al. *Oncotarget*. 2016 Aug 2;7(31):49527-49538.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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