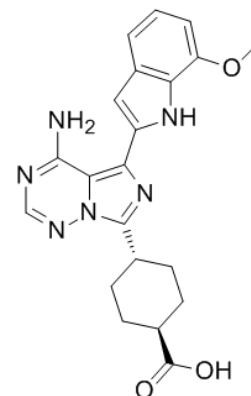


**Product Name** : OSI-027  
**Cat. No.** : PC-42577  
**CAS No.** : 936890-98-1  
**Molecular Formula** : C<sub>21</sub>H<sub>22</sub>N<sub>6</sub>O<sub>3</sub>  
**Molecular Weight** : 406.4378  
**Target** : mTOR  
**Solubility** : 10 mM in DMSO



## Biological Activity

OSI-027 is a potent and selective inhibitor of **mTORC1** and **mTORC2** with IC<sub>50</sub> of 22 nM and 65 nM, respectively.

OSI-027 displays >100-fold selectivity for mTOR over PI3K $\alpha$ , PI3K $\beta$ , PI3K $\gamma$ , and DNA-PK.

OSI-027 inhibits phosphorylation of the mTORC1 substrates 4E-BP1 and S6K1 as well as the mTORC2 substrate AKT in diverse cancer models in vitro and in vivo.

OSI-027 demonstrates robust antitumor activity in human xenograft models.

## References

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Falcon BL, et al. *Cancer Res*. 2011 Mar 1;71(5):1573-83.

Altman JK, et al. *Clin Cancer Res*. 2011 Jul 1;17(13):4378-88.

Bhagwat SV, et al. *Mol Cancer Ther*. 2011 Aug;10(8):1394-406.

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

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