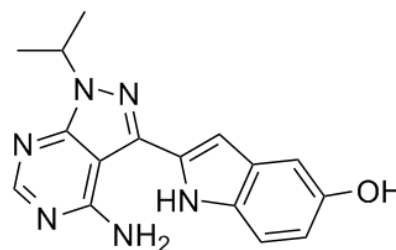


**Product Name** : PP242  
**Cat. No.** : PC-42608  
**CAS No.** : 1092351-67-1  
**Molecular Formula** : C<sub>16</sub>H<sub>16</sub>N<sub>6</sub>O  
**Molecular Weight** : 308.3378  
**Target** : mTOR  
**Solubility** : 10 mM in DMSO



### Biological Activity

Torkinib (PP242) is a potent, specific active-site inhibitor of **mTOR** with IC<sub>50</sub> of 30 and 58 nM for **mTORC1** and **mTORC2**, respectively.

Torkinib (PP242) shows no activity against PKC-β, RET, or JAK2 but inhibits PKC-α (IC<sub>50</sub>=50 nM).

Torkinib (PP242) blocks the phosphorylation of Akt at S473 and prevents its full activation, inhibits proliferation of primary cells more completely than rapamycin.

### References

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Hoang B, et al. *J Biol Chem*. 2012 Jun 22;287(26):21796-805.

Hsieh AC, et al. *Cancer Cell*. 2010 Mar 16;17(3):249-61.

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

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