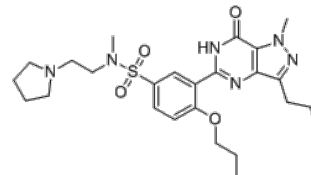


**Product Name** : TPN729  
**Cat. No.** : PC-63028  
**CAS No.** : 936951-20-1  
**Molecular Formula** : C<sub>25</sub>H<sub>36</sub>N<sub>6</sub>O<sub>4</sub>S  
**Molecular Weight** : 516.661  
**Target** : Phosphodiesterase (PDE)  
**Solubility** : 10 mM in DMSO



### Biological Activity

TPN729 (TPN-729) is a novel potent, selective phosphodiesterase type 5 (**PDE5**) inhibitor with IC<sub>50</sub> of 2.28 nM, shows better selectivity profile 2.5 times higher than sildenafil against PDE6 and 500 times higher than tadalafil against PDE11. TPN729 selectively inhibits PDE5 and blocks the degradation of cyclic guanosine monophosphate, and is a promising PDE5 inhibitor providing fewer side effects and better compliance.

### References

Wang Z, et al. *J Sex Med.* 2013 Nov;10(11):2790-7.

Zhu Y, et al. *J Pharm Biomed Anal.* 2016 Jan 5;117:217-26.

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

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