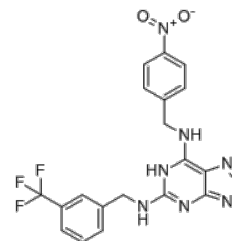


**Product Name** : IP6K1 inhibitor TNP  
**Cat. No.** : PC-63313  
**CAS No.** : 519178-28-0  
**Molecular Formula** : C<sub>20</sub>H<sub>16</sub>F<sub>3</sub>N<sub>7</sub>O<sub>2</sub>  
**Molecular Weight** : 443.39  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



## Biological Activity

IP6K1 inhibitor TNP is a potent, selective inositol hexakisphosphate kinase **IP6K** with IC<sub>50</sub> of 0.47 μM (IP6K1), does not inhibit either human or yeast Vip/PPIP5K.

IP6K1 inhibitor TNP reversibly inhibits InsP7 and InsP8 synthesis in vivo without affecting levels of other inositol phosphates.

IP6K1 inhibitor TNP increases the IGF-1 elicited stimulation of T308 phosphorylation of Akt without influencing p-S473, combination of TNP (10 μM) and SB216763 (1 μM) virtually abolishes adipogenic differentiation of NIH3T3-L1 cells.

IP6K1 inhibitor TNP ameliorates diet induced obesity and insulin resistance via inhibition of the IP6K1 pathway.

IP6K1 inhibitor TNP also suppresses neutrophil-mediated pulmonary damage in bacterial pneumonia.

## References

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Chakraborty A, et al. *Cell.* 2010 Dec 10;143(6):897-910.

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

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