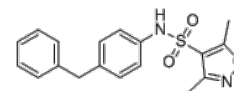


**Product Name** : PP5 inhibitor P053  
**Cat. No.** : PC-21296  
**CAS No.** : 1022417-69-1  
**Molecular Formula** : C<sub>18</sub>H<sub>18</sub>N<sub>2</sub>O<sub>3</sub>S  
**Molecular Weight** : 342.41  
**Target** : Protein Phosphatase/PTP  
**Solubility** : 10 mM in DMSO



CAS: 1022417-69-1

### Biological Activity

PP5 inhibitor P053 (Compound P053) is a potent, selective and competitive inhibitor of serine/threonine **protein phosphatase-5 (PP5)** with K<sub>i</sub> of 244 nM, specifically binds and inhibits PP5 activity.

PP5 inhibitor P053 does not bind to PP2A.

PP5 inhibitor P053 significantly inhibits cell proliferation in VHL-null ccRCC cells, 786-O and A498 compared to normal epithelial renal cell HK2 as well as VHL-positive ccRCC cell lines Caki-1 and Caki-2.

PP5 inhibitor P053 induces extrinsic apoptosis in clear cell renal cell carcinoma.

### References

Ahanin EF, et al. *Cell Chem Biol.* 2023 Oct 19;30(10):1223-1234.e12.

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

E-mail: tech@probechem.com