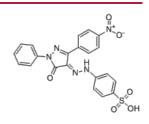


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Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	PHPS1
Cat. No.	:	PC-20340
CAS No.	:	314291-83-3
Molecular Formula	:	C ₂₁ H ₁₅ N ₅ O ₆ S
Molecular Weight	:	465.44
Target	:	Protein Phosphatase/PTP
Solubility	:	10 mM in DMSO



Biological Activity

PHPS1 is a potent, specific and cell-permeable inhibitor of protein tyrosine phosphatase **Shp2** with Ki value of 0.73 uM. PHPS1 displays 8- and 15-fold selectivity against most closely related PTPs, PTP1B, and Shp1.

PHPS1 (5 μ M) inhibits HGF/SF-induced scattering and branching morphogenesis of MDCK epithelial cells. PHPS1 inhibits Shp2-dependent signaling pathways, inhibits Erk1/2 but not Akt and Stat3 phosphorylation in a dose-dependent manner in MDCK cells.

PHPS1 effectively inhibits anchorage-independent growth of human tumor cells, which correlates strongly with their tumorigenicity and invasiveness.

References

Klaus Hellmuth, et al. Proc Natl Acad Sci U S A. 2008 May 20;105(20):7275-80.

Caution: Product has not been fully validated for medical applications. Lab Use Only! E-mail: tech@probechem.com