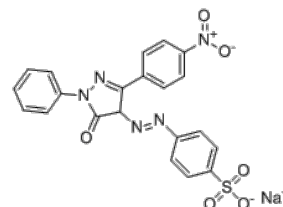


Product Name : PHPS1 sodium
Cat. No. : PC-20341
CAS No. : 1177131-02-0
Molecular Formula : C₂₁H₁₄N₅NaO₆S
Molecular Weight : 487.42
Target : Protein Phosphatase/PTP
Solubility : 10 mM in DMSO



Biological Activity

PHPS1 sodium is a potent, specific and cell-permeable inhibitor of protein tyrosine phosphatase **Shp2** with K_i value of 0.73 μM.

PHPS1 displays 8- and 15-fold selectivity against most closely related PTPs, PTP1B, and Shp1.

PHPS1 (5 μM) 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