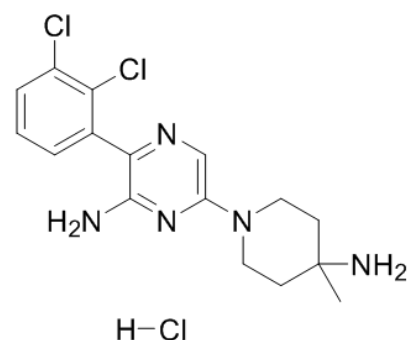


**Product Name** : SHP099 hydrochloride  
**Cat. No.** : PC-42129  
**CAS No.** : 1801747-11-4  
**Molecular Formula** : C<sub>16</sub>H<sub>20</sub>Cl<sub>3</sub>N<sub>5</sub>  
**Molecular Weight** : 388.7225  
**Target** : Protein Phosphatase/PTP  
**Solubility** :



### Biological Activity

SHP099 hydrochloride is a potent, selective, allosteric and orally bioavailable protein tyrosine phosphatase **SHP2** inhibitor with IC<sub>50</sub> of 71 nM.

SHP099 hydrochloride exhibits excellent phosphatase selectivity profiling over a panel of 21 human phosphatases (including SHP1) and a panel of 66 serine-threonine and tyrosine kinases.

SHP099 hydrochloride inhibits p-ERK with an IC<sub>50</sub> of ~0.25 μM in SHP2- dependent MDA-MB-468 and KYSE520 cells, suppresses RAS-ERK signalling to inhibit the proliferation of receptor-tyrosine-kinase-driven human cancer cells in vitro and is efficacious in mouse tumour xenograft models.

### References

Garcia Fortanet J, et al. *J Med Chem.* 2016 Sep 8;59(17):7773-82.

Chen YN, et al. *Nature.* 2016 Jul 7;535(7610):148-52.

Flemming A. *Nat Rev Drug Discov.* 2016 Jul 29;15(8):530-1.

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

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