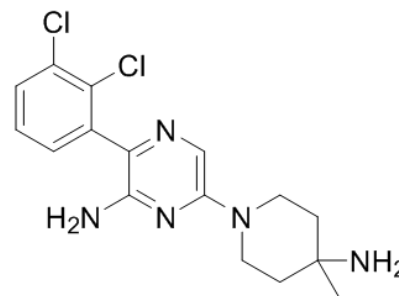


Product Name : SHP099
Cat. No. : PC-42128
CAS No. : 1801747-42-1
Molecular Formula : C₁₆H₁₉Cl₂N₅
Molecular Weight : 352.2616
Target : Protein Phosphatase/PTP
Solubility : DMSO: 6.4 mg/mL (Need ultrasonic)



Biological Activity

SHP099 (SHP-099) is a potent, selective, allosteric and orally bioavailable protein tyrosine phosphatase **SHP2** inhibitor with IC₅₀ of 71 nM.

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

SHP099 inhibits p-ERK with an IC₅₀ 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.

SHP099 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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