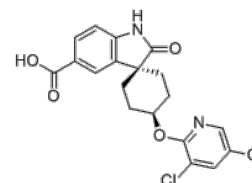


Product Name : SC-919
Cat. No. : PC-72584
CAS No. : 2245949-62-4
Molecular Formula : C₁₉H₁₆Cl₂N₂O₄
Molecular Weight : 407.247
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

SC-919 (SC919) is a potent, selective inhibitor of **IP6K (Inositol hexakisphosphate kinase)** with IC₅₀ of <5.2, <3.8 and 0.65 nM for human IP6K1/2/3, respectively.

SC-919 reduces the export of phosphate in 293 cells via an XPR1-dependent mechanism involving the SPX domain, reduces intracellular InsP7 levels.

SC-919 decreases plasma phosphate levels in rats and monkeys and does not inhibit phosphate intake by the gut or phosphate reuptake by the kidney in rats.

SC-919 decreases the plasma phosphate levels in rats with hyperphosphataemia.

SC-919 increases the intracellular levels of ATP in an XPR1-dependent manner.

SC-919 alleviates CKD-induced hyperphosphataemia and related parameters in adenine-treated rats.

References

Yusuke Moritoh, et al. *Nat Commun.* 2021 Aug 11;12(1):4847.

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

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