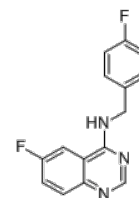


Product Name : Spautin-1
Cat. No. : PC-62189
CAS No. : 1262888-28-7
Molecular Formula : C₁₅H₁₁F₂N₃
Molecular Weight : 271.271
Target : Deubiquitinase (DUB)
Solubility : 10 mM in DMSO



Biological Activity

Spautin-1 is a potent, small molecule inhibitor of **autophagy** with IC₅₀ of 0.74 uM, inhibits **USP10** and **USP13** with IC₅₀ of 0.6-0.7 uM, but not USP14.

Spautin-1 promotes cell death under starvation condition and inhibits autophagic cell death, selectively promotes the degradation of Vps34 complexes, reduces the levels of PtdIns3P in cells, but is not a direct inhibitor of class III PI3 kinase activity.

Spautin-1 promotes the degradation of p53 via inhibition of USP10, which can be inhibited in the presence of MG132.

Spautin-1 sensitizes ovarian cancer cells to cisplatin and PARP inhibitor (olaparib).

References

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

E-mail: tech@probechem.com