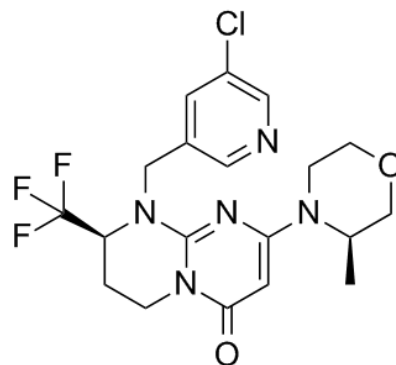


Product Name : SAR405
Cat. No. : PC-43055
CAS No. : 1523406-39-4
Molecular Formula : C₁₉H₂₁ClF₃N₅O₂
Molecular Weight : 443.8506
Target : PI3K
Solubility : DMSO: ≥ 27 mg/mL



Biological Activity

SAR405 is a highly potent and selective PI3K class III isoform **Vps34** inhibitor with IC₅₀ of 1.2 nM, inhibits the formation of autophagosomes in GFP-LC3 cells with IC₅₀ of 4 nM.

SAR405 displays no activity against class I and II PI3K isoforms (IC₅₀>10 μM), as well as PIKKs, ATM, ATR and DNA-PK, SMG1.

SAR405 affects both late endosome-lysosome compartments and prevents autophagy, shows synergistic antiproliferative activity in renal tumor cell lines combined with mTOR inhibitor everolimus.

SAR405 enhances the antitumor efficacy of cisplatin in mouse xenograft model of HNSCC.

References

Ronan B, et al. *Nat Chem Biol.* 2014 Dec;10(12):1013-9.

Pasquier B. *Autophagy.* 2015 Apr 3;11(4):725-6.

Valet C, et al. *Blood.* 2017 Nov 2;130(18):2032-2042.

New J, et al. *Cancer Res.* 2017 Dec 1;77(23):6679-6691.

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

E-mail: tech@probechem.com