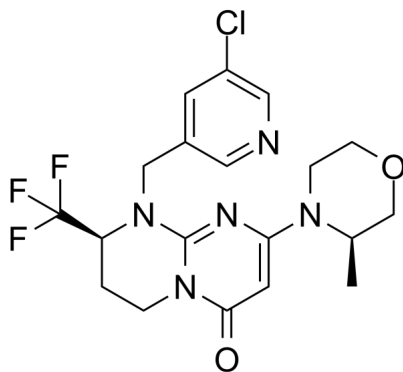


## Data Sheet

### Product Information

Catalog Number	BP12481
Product Name	SAR405
Description	SAR-405 is a potent and selective PIK3C3/Vps34 inhibitor (IC <sub>50</sub> :1.2 nM; K <sub>d</sub> :1.5 nM) that prevents autophagy and synergizes with MTOR inhibition in tumor cells. SAR405 treatment also inhibits autophagy induced either by starvation or by MTOR (mechanistic target of rapamycin) inhibition. Combining SAR405 with everolimus results in a significant synergy on the reduction of cell proliferation using renal tumor cells.
Targets&IC <sub>50</sub>	Autophagy:, Vps34:1.2 nM, Vps34:1.5 nM (kd)
In vitro	SAR405, a low molecular mass kinase inhibitor of PIK3C3, highly potent and selective with regard to other lipid and protein kinases.?Inhibiting the catalytic activity of PIK3C3 disrupts vesicle trafficking from late endosomes to lysosomes.?SAR405 treatment also inhibits autophagy induced either by starvation or by MTOR (mechanistic target of rapamycin) inhibition.?SAR405 prevents autophagosome formation (IC <sub>50</sub> : 42 nM).?Treatment of starved cells with SAR405 fully inhibits the conversion to LC3-II in a dose-dependent manner.?The GFP-LC3 model is used for the HTS and confirmed its activity on starved cells (IC <sub>50</sub> =419 nM) .
CAS No.	1523406-39-4
Chemical Formula	C <sub>19</sub> H <sub>21</sub> ClF <sub>3</sub> N <sub>5</sub> O <sub>2</sub>
Molecular Weight	443.86
Solubility	DMSO: 27 mg/mL (60.83 mM)

Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

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v2 Revision on 12/28/2022