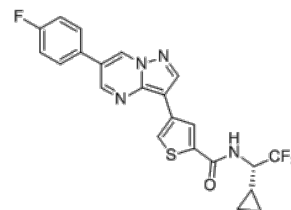


Product Name : ULK-101
Cat. No. : PC-35707
CAS No. : 2443816-45-1
Molecular Formula : C₂₂H₁₆F₄N₄OS
Molecular Weight : 460.451
Target : ULK
Solubility : 10 mM in DMSO



Biological Activity

ULK-101 (ULK101) is a potent and selective **ULK1** inhibitor with in vitro IC₅₀ of 8.3 nM, inhibits ULK2 with IC₅₀ of 30 nM. ULK-101 reduces Ser15 phosphorylation in a concentration-dependent manner in cell-based assay (EC₅₀=390 nM), which is more potent than SBI-0206965 showing a cellular EC₅₀ of 2.4 uM. ULK-101 displays desirable kinome selectivity profile. ULK-101 suppresses autophagy induction and autophagic flux in response to different stimuli, ULK1 inhibition sensitizes KRAS mutant lung cancer cells to nutrient stress.

References

Martin KR, et al. *iScience*. 2018 Oct 26;8:74-84. doi: 10.1016/j.isci.2018.09.012.

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

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