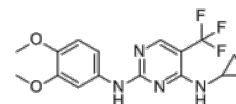


Product Name : SBP-7455
Cat. No. : PC-21693
CAS No. : 1884222-74-5
Molecular Formula : C₁₆H₁₇F₃N₄O₂
Molecular Weight : 354.33
Target : ULK
Solubility : 10 mM in DMSO



CAS: 1884222-74-5

Biological Activity

SBP-7455 is a potent, selective and orally active ULK1/2 inhibitor with IC₅₀ of 13 nM (**ULK1**) and 476 nM (ULK2) in ADP-Glo assays, selectively blocks autophagic flux in TNBC cell lines.

SBP-7455 blocks phosphorylation of downstream autophagy target proteins Beclin1 and VPS34.

SBP-7455 is an efficacious tool that can be used to modulate autophagy in vivo.

SBP-7455 is cytotoxic as single agents against TNBC cells with IC₅₀ of 0.3 μM for MDA-MB-468 cells, which is more potent than SBI-0206965.

SBP-7455 promotes apoptosis in TNBC cells under nutrient-deprived conditions.

SBP-7455 reduces autophagic flux and exhibits synergistic cytotoxicity with the PARP inhibitor olaparib against MDA-MB-468 cells, reverses olaparib-induced autophagic flux.

References

Huiyu Ren, et al. *J Med Chem*. 2020 Dec 10;63(23):14609-14625.

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

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