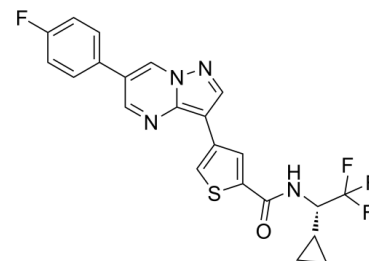


Data Sheet

Product Name:	ULK-101
Cat. No.:	CS-0086355
CAS No.:	2443816-45-1
Molecular Formula:	C ₂₂ H ₁₆ F ₄ N ₄ OS
Molecular Weight:	460.45
Target:	ULK
Pathway:	Autophagy
Solubility:	DMSO : 83.33 mg/mL (ultrasonic)



BIOLOGICAL ACTIVITY:

ULK-101 is a potent and selective **ULK1** inhibitor, with **IC₅₀** values of 1.6 nM and 30 nM for ULK1 and ULK2, respectively. ULK-101 suppresses autophagy and sensitizes cancer cells to nutrient stress^[1]. **IC₅₀ & Target:** IC₅₀: 1.6 nM (ULK1), 30 nM (ULK2)^[1]. **In Vitro:** ULK-101 (0-5 μM) reduces BafA1-induced LC3B-II accumulation in U2OS cells in a concentration-dependent manner^[1].

References:

[1]. Martin KR, et al. A Potent and Selective ULK1 Inhibitor Suppresses Autophagy and Sensitizes Cancer Cells to Nutrient Stress. iScience. 2018 Oct 26;8:74-84.

CAIndexNames:

2-Thiophenecarboxamide, N-[(1S)-1-cyclopropyl-2,2,2-trifluoroethyl]-4-[6-(4-fluorophenyl)pyrazolo[1,5-a]pyrimidin-3-yl]-

SMILES:

FC1=CC=C(C(C=N2)=CN3C2=C(C4=CSC(C(N[C@@H](C5CC5)C(F)(F)F)=O)=C4)C=N3)C=C1

Caution: Product has not been fully validated for medical applications. For research use only.

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