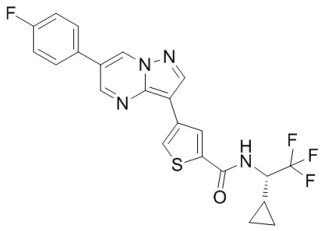
ULK-101

Cat. No.:	HY-114490		
Molecular Formula:	$C_{22}H_{16}F_4N_4OS$		
Molecular Weight:	460.45		
Target:	ULK		
Pathway:	Autophagy		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 83.33 mg/mL (180.98 mM; Need ultrasonic)
H_2O : < 0.1 mg/mL (insoluble)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.1718 mL	10.8589 mL	21.7179 mL
5 mM	0.4344 mL	2.1718 mL	4.3436 mL
10 mM	0.2172 mL	1.0859 mL	2.1718 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: **10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline**
   Solubility: ≥ 2.08 mg/mL (4.52 mM); Clear solution
2. Add each solvent one by one: **10% DMSO >> 90% (20% SBE-β-CD in saline)**
   Solubility: 2.08 mg/mL (4.52 mM); Precipitated solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

ULK-101 is a potent and selective **ULK1** inhibitor, with **IC_{50}** 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].

IC_{50} & Target

IC50: 1.6 nM (ULK1), 30 nM (ULK2)[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.

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