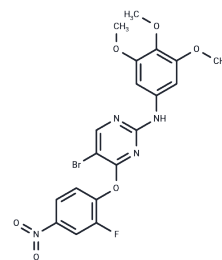


ULK1-IN-2

Chemical Properties

CAS No. :	2497409-01-3
Formula:	C19H16BrFN4O6
Molecular Weight:	495.26
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	ULK1-IN-2 is a potent ULK1 inhibitor with potential anticancer activity, inducing apoptosis while blocking autophagy. ULK1-IN-2 has high cytotoxicity against cancer cells, with an IC50 value of 1.94 μ M against A549 cells. ULK1-IN-2 can be used for the study of non-small-cell lung cancer.
Targets(IC50)	Apoptosis, FAK, AMPK, Autophagy
In vitro	ULK1-IN-2 (compound 3s) (10 μ M; 24 h) exhibits potent anti-proliferative activity against A549, U937, HL60, MDA-MB-468, and MCF-7 cells. In A549 cells, ULK1-IN-2 inhibits autophagy by targeting ULK1 and induces apoptosis via mitochondrial pathways in a dose-dependent manner. It also reduces ULK1 and p-ULK1ser317 expression in a concentration-dependent manner, significantly decreasing Bcl-2 expression while increasing Bax and active Caspase-3 expression.[1]

Solubility Information

Solubility	DMSO: 45 mg/mL (90.86 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0191 mL	10.0957 mL	20.1914 mL
5 mM	0.4038 mL	2.0191 mL	4.0383 mL
10 mM	0.2019 mL	1.0096 mL	2.0191 mL
50 mM	0.0404 mL	0.2019 mL	0.4038 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Sun D, Yang Z, Zhen Y, et al. Discovery of 5-bromo-4-phenoxy-N-phenylpyrimidin-2-amine derivatives as novel ULK1 inhibitors that block autophagy and induce apoptosis in non-small cell lung cancer. Eur J Med Chem. 2020; 208:112782.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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