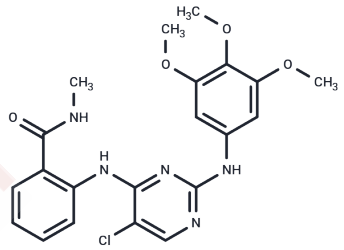
Data Sheet (Cat.No.T212604)

TargetMol

SBP-1750

Chemical Properties



CAS No. : 1884219-70-8

Formula: C21H22ClN5O4

Molecular Weight: 443.88

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	SBP-1750 is a potent, orally active autophagy inhibitor with a dual mechanism of action. It functions as a kinase inhibitor, strongly suppressing ULK1 (IC50 = 8 nM) and ULK2 (IC50 = 50 nM) activity, while simultaneously inducing the degradation of ATG13 (EC50 = 114 nM). This dual-targeting approach effectively blocks autophagic flux and induces cell death, exhibiting significant efficacy particularly against KRAS-mutant cancers such as pancreatic and lung cancers.
Targets(IC50)	Autophagy,ATG
In vitro	SBP-1750 induces ATG13 degradation (EC50 = 114 nM) and inhibits KRAS-mutant cancer cell viability (IC50 < 50 nM) [1].
In vivo	Daily SBP-1750 (40 mg/kg p.o.) significantly reduced tumor size and inhibited metastasis in PDAC mouse models [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2529 mL	11.2643 mL	22.5286 mL
5 mM	0.4506 mL	2.2529 mL	4.5057 mL
10 mM	0.2253 mL	1.1264 mL	2.2529 mL
50 mM	0.0451 mL	0.2253 mL	0.4506 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

Atsushi Suda, et al. Design and synthesis of novel macrocyclic 2-amino-6-arylpyrimidine Hsp90 inhibitors. Bioorg Med Chem Lett. 2012 Jan 15;22(2):1136-41.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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