

PIK5-12d

## Chemical Properties

CAS No. :

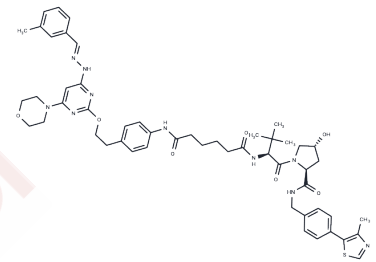
Formula: C52H64N10O7S

Molecular Weight: 973.19

Store at low temperature

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	PIK5-12d is a PROTAC PIKfyve degrader with antitumor activity that induces massive cytoplasmic vacuolization and blocks autophagic flow. PIK5-12d inhibits the value-added of cancer cells and can be used in the study of prostate cancer.
Targets(IC50)	Autophagy,PI3K,PROTAC Linker,PROTACs
In vitro	PIK5-12d is a PROTAC PIKfyve degrader with a DC50 of 1.48 nM.PIK5-12d triggers massive cytoplasmic vacuolization and inhibits autophagic flow in a wide range of prostate cancer cells, thereby inhibiting the proliferation of prostate cancer cells. [1]

## Solubility Information

Solubility	DMSO: 160 mg/mL (164.41 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	1.0275 mL	5.1377 mL	10.2755 mL
5 mM	0.2055 mL	1.0275 mL	2.0551 mL
10 mM	0.1028 mL	0.5138 mL	1.0275 mL
50 mM	0.0206 mL	0.1028 mL	0.2055 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

Li C, et al. Discovery of a First-in-Class Degradar for the Lipid Kinase PIKfyve. J Med Chem. 2023 Sep 14;66(17): 12432-12445.

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