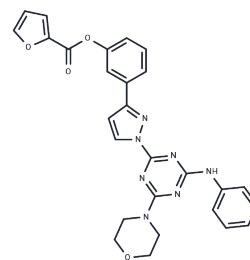


STL001

Chemical Properties

CAS No. : 3047493-70-6
 Formula: C₂₇H₂₃N₇O₄
 Molecular Weight: 509.52
 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	STL001 is a potent and selective inhibitor of FOXM1. It triggers the translocation of nuclear FOXM1 to the cytoplasm, promoting autophagic degradation. STL001 enhances the sensitivity of human cancers to broad-spectrum cancer therapies.
Targets(IC50)	Autophagy
In vitro	STL001, in concentrations ranging from 1-10µM over 24 hours, causes a dose-dependent reduction in cellular FOXM1 protein levels. At 5µM for 24 hours, STL001 prompts the translocation of nuclear FOXM1 to the cytoplasm, enhancing its autophagic degradation. In U2OS-C3-luc cells, treatment with 5µM for 24 hours resulted in decreased FOXM1 levels and elevated expression of the autophagy marker protein LC3.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9626 mL	9.8132 mL	19.6263 mL
5 mM	0.3925 mL	1.9626 mL	3.9253 mL
10 mM	0.1963 mL	0.9813 mL	1.9626 mL
50 mM	0.0393 mL	0.1963 mL	0.3925 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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