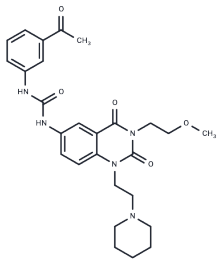
Data Sheet (Cat.No.T86073)

TargetMol

COP1-ATGL modulator 1

Chemical Properties



CAS No. : 2946701-09-1

Formula: C27H33N5O5

Molecular Weight: 507.58

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	COP1-ATGL modulator 1 (compound 86) is an orally active compound that targets the COP1-ATGL axis. COP1-ATGL modulator 1 (compound 86) enhances ATGL protein expression, decreases ATGL ubiquitination and COP1 autoubiquitination, and notably reduces lipid accumulation in hepatocytes, effective in the nanomolar concentration [1].
Targets(IC50)	Lipase

Solubility Information

Solubility	DMSO: 100 mg/mL (197.01 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9701 mL	9.8507 mL	19.7013 mL
5 mM	0.394 mL	1.9701 mL	3.9403 mL
10 mM	0.197 mL	0.9851 mL	1.9701 mL
50 mM	0.0394 mL	0.197 mL	0.394 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

Dipayan Sarkar, et al. Discovery and Development of Quinazolinones and Quinazolinediones for Ameliorating Nonalcoholic Fatty Liver Disease (NAFLD) by Modulating COP1-ATGL Axis. J Med Chem. 2023 Dec 28;66(24):16728-16761.

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