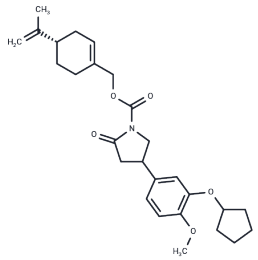
Data Sheet (Cat.No.T86992)

TargetMol

NEO214

Chemical Properties



CAS No. : 1361198-80-2

Formula: C27H35NO5

Molecular Weight: 453.57

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	NEO214 is an autophagy inhibitor obtained by covalently conjugating rolipram, a PDE4 inhibitor, with perillyl alcohol. It possesses anticancer activity and blood-brain barrier (BBB) permeability, blocks autophagosome-lysosome fusion, thereby inhibiting autophagic flux and inducing glioma cell death, which is associated with mTOR activation and aggregation of the transcription factor TFEB. NEO214 inhibits macroautophagy/autophagy in glioblastoma cells and has the potential to overcome chemoresistance in glioblastoma.
Targets(IC50)	Autophagy,mTOR

Solubility Information

Solubility	DMSO: 80 mg/mL (176.38 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2047 mL	11.0237 mL	22.0473 mL
5 mM	0.4409 mL	2.2047 mL	4.4095 mL
10 mM	0.2205 mL	1.1024 mL	2.2047 mL
50 mM	0.0441 mL	0.2205 mL	0.4409 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

Ou M, et al. Inhibition of autophagy and induction of glioblastoma cell death by NEO214, a perillyl alcohol-rolipram conjugate. Autophagy. 2023 Dec;19(12):3169-3188.

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