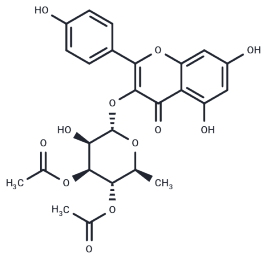
Data Sheet (Cat.No.T16896)

TargetMol

SL 0101-1

Chemical Properties



CAS No. : 77307-50-7

Formula: C25H24O12

Molecular Weight: 516.45

Storage: Store at low temperature
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	SL 0101-1 (SL0101) is a selective, efficient, reversible and ATP-competitive inhibitor of p90 ribosomal S6 kinase (RSK) that can permeate cell membranes, with an IC50 value of 89 nM for RSK.SL 0101-1 (SL0101) is also a potent RSK1/2 inhibitor with a Ki value of 1 μM. SL 0101-1 (SL0101) is also a potent RSK1/2 inhibitor with a Ki value of 1 μM.
Targets(IC50)	S6 Kinase
In vitro	SL 0101-1 (SL0101) induces proliferation inhibition in the human breast cancer cell line MCF-7 and causes a cell cycle block in the G1 phase[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9363 mL	9.6815 mL	19.363 mL
5 mM	0.3873 mL	1.9363 mL	3.8726 mL
10 mM	0.1936 mL	0.9681 mL	1.9363 mL
50 mM	0.0387 mL	0.1936 mL	0.3873 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

Yu Li, et al. The Affinity of RSK for Cylitol Analogues of SL0101 Is Critically Dependent on the B-ring C-4'-hydroxy. Chem Commun (Camb). 2020 Mar 10;56(20):3058-3060.
Smith JA, et al. Identification of the first specific inhibitor of p90 ribosomal S6 kinase (RSK) reveals an unexpected role for RSK in cancer cell proliferation. Cancer Res. 2005 Feb 1;65(3):1027-34.

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