

CAY10747

Chemical Properties

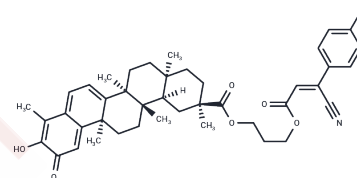
CAS No. : 2413849-81-5

Formula: C42H48FNO6

Molecular Weight: 681.83

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	CAY10747 is an inhibitor of the protein-protein interaction between heat shock protein 90 (Hsp90) and cell division cycle 37 (Cdc37) and a derivative of celastrol. It decreases protein levels of the Hsp90-Cdc37 complex and the Hsp90-Cdc37 clients phosphorylated Akt and Cdk4 in A549 cells when used at a concentration of 5 μ M. CAY10747 inhibits proliferation of A549, MCF-7, HOS, and HepG2 cells (IC50s = 0.41, 0.64, 0.9, and 0.94 μ M, respectively) and induces apoptosis in A549 cells.
Targets(IC50)	Apoptosis,Others,HSP

Solubility Information

Solubility	DMF: 30 mg/mL (44 mM),Sonication is recommended. Ethanol: 1 mg/mL (1.47 mM),Sonication is recommended. DMSO: 20 mg/mL (29.33 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	1.4666 mL	7.3332 mL	14.6664 mL
5 mM	0.2933 mL	1.4666 mL	2.9333 mL
10 mM	0.1467 mL	0.7333 mL	1.4666 mL
50 mM	0.0293 mL	0.1467 mL	0.2933 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, N., Xu, M., Wang, B., et al. Discovery of novel celastrol derivatives as Hsp90-Cdc37 interaction disruptors with antitumor activity. *J. Med. Chem.* 62(23)10798-10815(2019)

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