

CAY10736

Chemical Properties

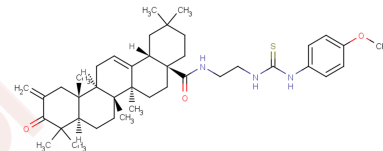
CAS No. : 2251753-61-2

Formula: C₄₁H₅₉N₃O₃S

Molecular Weight: 673.99

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	CAY10736 is an anticancer compound. ¹ It inhibits proliferation in a panel of melanoma and breast, pancreatic, and lung cancer cell lines (IC ₅₀ s = 0.827-9.89 μM). CAY10736 inhibits migration and epithelial-to-mesenchymal transition (EMT) of A375 and B16/F10 melanoma cells in vitro in a concentration-dependent manner. It reduces the viability of spheroid A375 and B16/F10 cells (IC ₅₀ s = 2.4 and 1.59 μM, respectively) and increases the production of reactive oxygen species (ROS) in these cells in a concentration-dependent manner. CAY10736 (5 mg/kg) reduces tumor growth in B16/F10 melanoma and Lewis lung carcinoma mouse models and an A375 mouse xenograft model.
Targets(IC ₅₀)	Others, Reactive Oxygen Species

Solubility Information

Solubility	Chloroform: Soluble Ethanol: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4837 mL	7.4185 mL	14.837 mL
5 mM	0.2967 mL	1.4837 mL	2.9674 mL
10 mM	0.1484 mL	0.7419 mL	1.4837 mL
50 mM	0.0297 mL	0.1484 mL	0.2967 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

Liu, X., Li, B., Zhang, Z., et al. Synthesis and discovery novel anti-cancer stem cells compounds derived from the natural triterpenic acids. J. Med. Chem. 61(23), 10814-10833 (2018).

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