

CAY10726

Chemical Properties

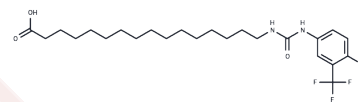
CAS No. : 1611446-66-2

Formula: C₂₄H₃₆ClF₃N₂O₃

Molecular Weight: 493

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	CAY10726 is an arylurea fatty acid. It decreases ATP production by 28% in MDA-MB-231 breast cancer cells when used at a concentration of 10 μ M. CAY10726 decreases proliferation and initiates apoptosis in MDA-MB-231 cells via depletion of the phospholipid cardiolipin and its precursor phosphatidylglycerol from the mitochondrial membrane.
Targets(IC50)	Apoptosis,Others,Mitochondrial Metabolism
In vivo	In vivo, CAY10726 (2.5-40 mg/kg) reduces tumor volume and increases tumor cell apoptosis in a mouse MDA-MB-231 breast cancer xenograft model in a dose-dependent manner.

Solubility Information

Solubility	DMSO: 5 mg/mL (10.14 mM),Sonication is recommended. Ethanol: 12 mg/mL (24.34 mM),Sonication is recommended. DMF:PBS(pH7.2) (1:2): 0.33 mg/mL (0.67 mM),Sonication is recommended. DMF: 20 mg/mL (40.57 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	2.0284 mL	10.142 mL	20.284 mL
5 mM	0.4057 mL	2.0284 mL	4.0568 mL
10 mM	0.2028 mL	1.0142 mL	2.0284 mL
50 mM	0.0406 mL	0.2028 mL	0.4057 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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