

LCB-2151

Chemical Properties

CAS No. : 2211175-99-2
Formula: C37H43F8N3O5S2
Molecular Weight: 825.87
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	LCB-2151 (Compound 2) is a nucleoside analog and an anticancer agent. It disrupts the two main sources of ATP production, glycolysis and mitochondrial oxidative phosphorylation, reducing the bioenergetic capacity of KRAS mutant pancreatic cancer cells and inducing the formation of ROS. LCB-2151 effectively inhibits key enzymes in glycolysis, the TCA cycle, and fatty acid β -oxidation, such as CACT and CPT2. It demonstrates significant cytotoxicity and can induce apoptosis. LCB-2151 is applicable in cancer radiotherapy research.
Targets(IC50)	Apoptosis, Mitochondrial Metabolism

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.2108 mL	6.0542 mL	12.1084 mL
5 mM	0.2422 mL	1.2108 mL	2.4217 mL
10 mM	0.1211 mL	0.6054 mL	1.2108 mL
50 mM	0.0242 mL	0.1211 mL	0.2422 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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