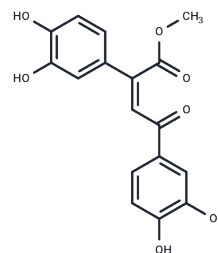


YZL-51N

Chemical Properties

CAS No. : 3031072-69-9
 Formula: C₁₇H₁₄O₇
 Molecular Weight: 330.29
 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	YZL-51N is a selective SIRT7 inhibitor with an IC ₅₀ of 12.71 μM. It disrupts the activity of the SIRT7 enzyme by occupying the NAD ⁺ binding pocket, which diminishes DNA damage repair and inhibits cancer cell survival. Due to its antitumor activity, YZL-51N is employed in cancer research.
In vitro	YZL-51N (0-40 μM, 8 h) demonstrates a dose-dependent increase in H3K18ac levels in HCT116 and HT29 cells.
In vivo	YZL-51N (15 mg/kg, subcutaneous injection) effectively reduces tumor volume in the HCT116 xenograft model.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0276 mL	15.1382 mL	30.2764 mL
5 mM	0.6055 mL	3.0276 mL	6.0553 mL
10 mM	0.3028 mL	1.5138 mL	3.0276 mL
50 mM	0.0606 mL	0.3028 mL	0.6055 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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