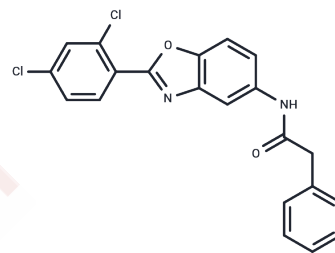


CAY10722

Chemical Properties

CAS No. : 388086-13-3
 Formula: C₂₁H₁₄Cl₂N₂O₂
 Molecular Weight: 397.25
 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	CAY10722 is an inhibitor of sirtuin 3 (SIRT3), a class III HDAC (71% inhibition at 200 μ M). SIRT3 is involved in modulating metabolic homeostasis as a NAD ⁺ -dependent protein deacetylase in the mitochondria. SIRT3 functions as either an oncogene or tumor suppressor, depending on cancer cell type. High SIRT3 expression in patient-derived esophageal cancer tissues is associated with shorter survival and, in mice, downregulation leads to a lower tumor load. In contrast, low SIRT3 expression in patient-derived breast cancer cells is correlated with shorter survival.
Targets(IC50)	Others,Sirtuin

Solubility Information

Solubility	DMSO: 10 mg/mL (25.17 mM),Sonication is recommended. Ethanol: Slightly soluble DMF: 10 mg/mL (25.17 mM),Sonication is recommended. DMSO:PBS(pH7.2) (1:1): 0.5 mg/mL (1.26 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	2.5173 mL	12.5865 mL	25.1731 mL
5 mM	0.5035 mL	2.5173 mL	5.0346 mL
10 mM	0.2517 mL	1.2587 mL	2.5173 mL
50 mM	0.0503 mL	0.2517 mL	0.5035 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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