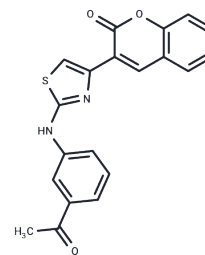


ZINC00784494

Chemical Properties

CAS No. : 317328-17-9
Formula: C₂₀H₁₄N₂O₃S
Molecular Weight: 362.4
Storage: Store at low temperature
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	ZINC00784494 is a selective inhibitor of LCN2 (lipocalin-2), which inhibits cancer cell proliferation and reduces AKT phosphorylation levels, prevents the transition of the cell cycle from the G ₀ /G ₁ phase to the S phase, and promotes apoptosis. It can be used for the study of inflammatory breast cancer (IBC).
Targets(IC ₅₀)	Apoptosis,Others,Akt
In vitro	Method: Cell viability assay was performed to evaluate the effect of ZINC00784494 on SUM149 cells. Cells were exposed to various concentrations of ZINC00784494 (0.01 to 100 μM) and incubated for 72 hours. Result: ZINC00784494 significantly reduced the viability of SUM149 cells at concentrations of 1 μM or lower. [1]

Solubility Information

Solubility	DMSO: 80 mg/mL (220.75 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	2.7594 mL	13.7969 mL	27.5938 mL
5 mM	0.5519 mL	2.7594 mL	5.5188 mL
10 mM	0.2759 mL	1.3797 mL	2.7594 mL
50 mM	0.0552 mL	0.2759 mL	0.5519 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

Santiago-Sánchez GS, et al. Targeting Lipocalin-2 in Inflammatory Breast Cancer Cells with Small Interference RNA and Small Molecule Inhibitors. *Int J Mol Sci.* 2021 Aug 10;22(16):8581.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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