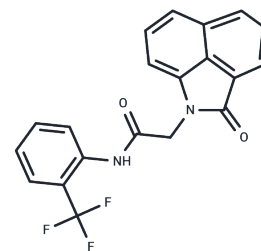


ZINC00640089

Chemical Properties

CAS No. : 667880-11-7
 Formula: C₂₀H₁₃F₃N₂O₂
 Molecular Weight: 370.32
 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	ZINC00640089 is a selective lipid carrier protein-2 (LCN2) inhibitor. ZINC00640089 inhibited cell proliferation and cell viability, and reduced AKT phosphorylation in SUM149 cells. ZINC00640089 can be used to study inflammatory breast cancer (IBC).
Targets(IC50)	Akt
In vitro	In SUM149 cells, ZINC00640089 (0.01-100 μM; 72 h) decreases cell proliferation and cell viability [1]. Additionally, ZINC00640089 (1, 10 μM; 15 min, 1 h) reduces the levels of p-Akt in SUM149 cells [1].

Solubility Information

Solubility	DMSO: 34.29 mg/mL (92.6 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	2.7004 mL	13.5018 mL	27.0037 mL
5 mM	0.5401 mL	2.7004 mL	5.4007 mL
10 mM	0.270 mL	1.3502 mL	2.7004 mL
50 mM	0.054 mL	0.270 mL	0.5401 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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