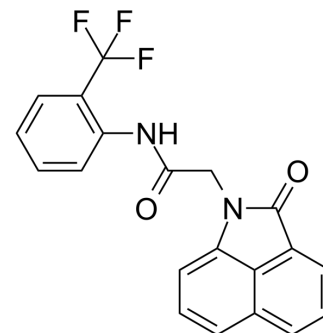


ZINC00640089

Cat. No.:	HY-Q45780		
CAS No.:	667880-11-7		
Molecular Formula:	C ₂₀ H ₁₃ F ₃ N ₂ O ₂		
Molecular Weight:	370.32		
Target:	Akt		
Pathway:	PI3K/Akt/mTOR		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 12.5 mg/mL (33.75 mM; ultrasonic and warming and heat to 60°C)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.7004 mL	13.5018 mL	27.0037 mL
	5 mM	0.5401 mL	2.7004 mL	5.4007 mL
	10 mM	0.2700 mL	1.3502 mL	2.7004 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

ZINC00640089 is a specific Lipocalin-2 (LCN2) inhibitor. ZINC00640089 inhibits cell proliferation, cell viability and reduces AKT phosphorylation levels in SUM149 cells. ZINC00640089 has good potential for research in inflammatory breast cancer (IBC)^[1].

IC₅₀ & Target

LCN2^[1].

In Vitro

ZINC00640089 (0.01-100 μM; 72 h) reduces cell proliferation and cell viability in SUM149 cells^[1].
 ZINC00640089 (1, 10 μM; 15 min, 1 h) reduces the p-Akt levels in SUM149 cells^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.
 Cell Viability Assay^[1]

Cell Line:	SUM149 cells
Concentration:	0.01-100 μM

Incubation Time:	72 h
Result:	Reduced cell viability at concentrations of 1 μ M or lower.
Western Blot Analysis ^[1]	
Cell Line:	SUM149 cells
Concentration:	1, 10 μ M
Incubation Time:	15 min, 1 h, 24 h
Result:	Reduced the p-Akt protein levels 15 min and 1 h and changes in the p-Akt protein levels were not observed at 24 h.

REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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