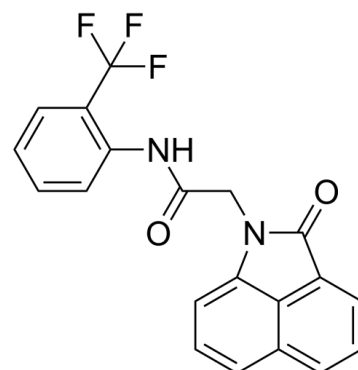


Data Sheet

Product Name:	ZINC00640089
Cat. No.:	CS-0426234
CAS No.:	667880-11-7
Molecular Formula:	C ₂₀ H ₁₃ F ₃ N ₂ O ₂
Molecular Weight:	370.33
Target:	Akt
Pathway:	PI3K/Akt/mTOR
Solubility:	DMSO : 12.5 mg/mL (ultrasonic;warming;heat to 60°C)



BIOLOGICAL ACTIVITY:

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].

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.

CAIndexNames:

Benz[cd]indole-1(2H)-acetamide, 2-oxo-N-[2-(trifluoromethyl)phenyl]-

SMILES:

O=C(NC1C(C2=C3C1=CC=CC3=CC=C2)=O)NC4=C(C(F)(F)F)C=CC=C4

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

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