

ICSN3250 HCl

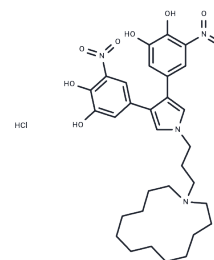
Chemical Properties

CAS No. : 1561902-79-1

Formula: C₃₁H₄₁ClN₄O₈

Molecular Weight: 633.13

Storage: Store at low temperature, Keep away from moisture
 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	ICSN3250 HCl is an mTOR inhibitor that specifically targets cancer cells, competing with and displacing phosphatidic acid in the FRB structural domain of mTOR, thereby preventing mTOR activation and leading to cytotoxicity.
Targets(IC50)	Autophagy, mTOR, S6 Kinase, ATG, p62
In vitro	ICSN3250 HCl was tested on multiple cancer cell lines (HCT116, U2OS, U87, K562) and normal cells (HUVEC, NHDF, HFDPC) under standard culture conditions (10-100 nmol/L, 24-72 h). Western blot, autophagy markers, and viability assays were used to assess activity. Results showed ICSN3250 HCl selective mTORC1 inhibition and cytotoxicity in cancer cells with minimal toxicity to normal cells[1].
In vivo	ICSN3250 HCl (100 nmol/L, 72 h) was applied to primary colorectal cancer cells and matched fibroblasts isolated from patient tumor tissue. Cell viability and morphology were assessed microscopically. ICSN3250 HCl selectively reduced cancer cell viability without affecting normal fibroblasts[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5795 mL	7.8973 mL	15.7945 mL
5 mM	0.3159 mL	1.5795 mL	3.1589 mL
10 mM	0.1579 mL	0.7897 mL	1.5795 mL
50 mM	0.0316 mL	0.1579 mL	0.3159 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

Nguyen TL, et al. mTOR Inhibition via Displacement of Phosphatidic Acid Induces Enhanced Cytotoxicity Specifically in Cancer Cells. Cancer Res. 2018 Sep 15;78(18):5384-5397.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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