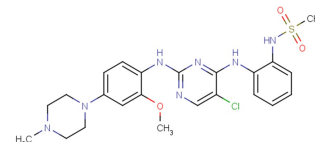


ZX-29

Chemical Properties

CAS No.: 2254805-62-2
Formula: C23H28ClN7O3S
Molecular Weight: 518.03
Appearance: N/A
Storage: 0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	ZX-29 is a potent and selective inhibitor of ALK(IC50 of 2.1 nM, 1.3 nM and 3.9 nM for ALK, ALK L1196M and ALK G1202R mutations, respectively), and also induces protective autophagy and has antitumor effect.
Targets(IC50)	ALK: 2.1 nM ALK L1196M: 1.3 nM ALK G1202R: 3.9 nM
In vitro	ZX-29 (0-81 nM; 24-72 hours; NCI-H2228 cells) treatment resulted in a decrease in the viability of NCI-H2228 cells with time and dose. ZX-29 (10 nM; 24 hours; NCI-H2228 cells) treatment causes typical signs of autophagy and the formation of autophagosomes. ZX-29 enhances the expression level of LC3 and Beclin1. ZX-29 (10 nM; 0-48 hours; NCI-H2228 cells) inhibits the proliferation of NCI-H2228 cells and arrests the cells in G1 phase. ZX-29 (20 nM; 0-48 hours; NCI-H2228 cells) treatment significantly increases the mRNA level of CHOP. ZX-29 dose-dependently inhibits colony formation of NCI-H2228 cells. With an increase in ZX-29 concentration, the cell density decreased gradually, and the cells lost their normal morphology and become sharp and slender.
In vivo	In a mouse xenograft model, ZX-29 (50 mg/kg; intragastric administration; every 2 days; for a total of 7 times; female BALB/c nude mice) treatment suppresses tumor growth.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.93 mL	9.652 mL	19.304 mL
5 mM	0.386 mL	1.93 mL	3.861 mL
10 mM	0.193 mL	0.965 mL	1.93 mL
50 mM	0.039 mL	0.193 mL	0.386 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Gou W, et al. ZX-29, a novel ALK inhibitor, induces apoptosis via ER stress in ALK rearrangement NSCLC cells and overcomes cell resistance caused by an ALK mutation. *Biochim Biophys Acta Mol Cell Res.* 2020 Mar 26;1867(7):118712.

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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481