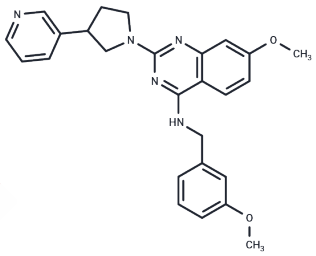
Data Sheet (Cat.No.T73415)

TargetMol

Miclxin

Chemical Properties



CAS No. : 2494198-61-5

Formula: C26H27N5O2

Molecular Weight: 441.52

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	Miclxin (DS37262926) is a novel MIC60 inhibitor that induces apoptosis through mitochondrial stress in mutant tumor cells via β-catenin.Miclxin is a potent inhibitor of mutant β-catenin, which is involved in the Wnt signaling pathway.Miclxin induces β-catenin-dependent apoptosis, leading to mitochondrial damage and loss of mitochondrial membrane. Miclxin has anti-tumor activity and kills tumors by targeting MIC60.
Targets(IC50)	Apoptosis,Wnt/beta-catenin
In vitro	Miclxin (0-15 μM; 48 h) inhibits growth in both β-catenin mutant HCT116 cells and isogenic HCT116 cells (CTNNB1 Δ45/-), and at (10 μM; 24 h) induces apoptosis in HCT116 cells.[1]

Solubility Information

Solubility	DMSO: 50 mg/mL (113.25 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (2.26 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2649 mL	11.3245 mL	22.649 mL
5 mM	0.453 mL	2.2649 mL	4.5298 mL
10 mM	0.2265 mL	1.1325 mL	2.2649 mL
50 mM	0.0453 mL	0.2265 mL	0.453 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

Ikeda H, et al. Miclxin, a Novel MIC60 Inhibitor, Induces Apoptosis via Mitochondrial Stress in β-Catenin Mutant Tumor Cells. ACS Chem Biol. 2020;15(8):2195-2204.