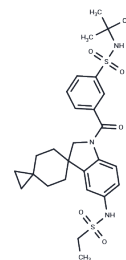


KIF18A-IN-6

Chemical Properties

CAS No. : 2914879-10-8
 Formula: C₂₈H₃₇N₃O₅S₂
 Molecular Weight: 559.74
 Storage: Store at low temperature
 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	KIF18A-IN-6 (Compound 134) is an orally active KIF18A inhibitor that suppresses KIF18A microtubule-dependent ATPase activity with an IC ₅₀ of 0.016 μM. It reduces HCC15 tumour volume in mouse models and may be employed in KIF18A-associated cancer research.
Targets(IC ₅₀)	Microtubule Associated,Kinesin
In vitro	KIF18A-IN-6 demonstrates inhibitory effects on the viability of JIMT-1, HCC-15, and NIH-OVCAR3 cells, with corresponding IC ₅₀ values of 0.0040, 0.0051, and 0.0051 μM, respectively. [1]
In vivo	KIF18A-IN-6 (10-60 mg/kg, once or twice daily for 1 month) administered orally effectively inhibited the growth of HCC15 and OVCAR3 tumors in mice. [1]

Solubility Information

Solubility	DMSO: 100 mg/mL (178.65 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (5.9 mM),Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7865 mL	8.9327 mL	17.8654 mL
5 mM	0.3573 mL	1.7865 mL	3.5731 mL
10 mM	0.1787 mL	0.8933 mL	1.7865 mL
50 mM	0.0357 mL	0.1787 mL	0.3573 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

COGAN, et al. SPIRO INDOLINE INHIBITORS OF KIF18A. Patent WO2023028564.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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