KIF18A-IN-6

Cat. No.:	HY-153065			
CAS No.:	2914879-10-8			
Molecular Formula:	C ₂₈ H ₃₇ N ₃ O ₅ S ₂			
Molecular Weight:	559.74			
Target:	Microtubule/Tubulin			
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton			
Storage:	Powder	-20°C	3 years	
	In solvent	-80°C	6 months	
		-20°C	1 month	

®

MedChemExpress

SOLVENT & SOLUBILITY

s		Solvent Mass Concentration	1 mg	5 mg	10 mg	
	Preparing Stock Solutions	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	
	Please refer to the so	Please refer to the solubility information to select the appropriate solvent.				

BIOLOGICAL ACTIVITY			
Description	KIF18A-IN-6 (Compound 134) is an orally active KIF18A inhibitor with an IC ₅₀ of 0.016 μM against KIF18A microtubule- dependent ATPase activity ^[1] .		
IC ₅₀ & Target	IC50: 0.016 μ M (KIF18A microtubule-dependent ATPase activity) ^[1]		
In Vitro	$0.0051\mu\text{M}$, respectively ^[1] .	34; 7 days) inhibits JIMT-1, HCC-15 and NIH-OVCAR3 cells viability with IC ₅₀ s of 0.0040, 0.0051 and ly confirmed the accuracy of these methods. They are for reference only. HCC-15, JIMT-1 and NIH-OVCAR3	

Product Data Sheet

HŃ、 ∕O ŞÉO

0

0、_0 ____S

Ň H

	Incubation Time:	7 days
Result:		Inhibited cell viability with IC $_{50}$ s of 0.0040, 0.0051 and 0.0051 μM against JIMT-1, HCC-15 and NIH-OVCAR3 cells, respectively.
In Vivo	in mice ^[1] .	d 134; 10-60 mg/kg; p.o.; twice or once a day for 1 month) inhibits HCC15 and OVCAR3 tumor growth ntly confirmed the accuracy of these methods. They are for reference only.
	Animal Model:	SCID Beige mice, HCC15 tumor model $^{[1]}$
	Dosage:	10, 30 and 60 mg/kg
	Administration:	PO, twice a day for 1 month
	Result:	Inhibited tumor growth by 61±10%, 89±7% and 94±5% at 10, 30 and 60 mg/kg, respectively.
	Animal Model:	Balb/C nude mice, OVCAR3 tumor model ^[1]
	Dosage:	10, 30 and 60 mg/kg
	Administration:	PO, twice or once a day for 1 month
	Result:	Completely inhibited tumor growth (over 100%) over 30 mg/kg.

REFERENCES

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

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA