

KIF18A-IN-3

Chemical Properties

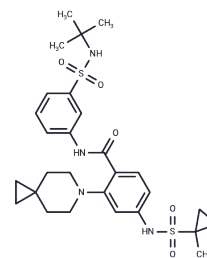
CAS No. : 2600577-49-7

Formula: C₂₈H₃₈N₄O₅S₂

Molecular Weight: 574.76

Storage: Keep away from moisture, 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-3 is an efficient KIF18A inhibitor (IC ₅₀ = 61 nM) that induces mitotic arrest and increases the number of mitotic cells in tumor tissues. It can be used in tumor research.
Targets(IC ₅₀)	Microtubule Associated, Kinesin
In vitro	KIF18A-IN-3 is a potent KIF18A inhibitor with IC ₅₀ = 61 nM. [1]
In vivo	KIF18A-IN-3 (100 mg/kg, ip.) increased the number of mitotic cells (PH3-positive cells) in CD1 mouse tumor tissue for up to 24 hours. [1]

Solubility Information

Solubility	DMSO: 80 mg/mL (139.19 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7399 mL	8.6993 mL	17.3986 mL
5 mM	0.348 mL	1.7399 mL	3.4797 mL
10 mM	0.174 mL	0.8699 mL	1.7399 mL
50 mM	0.0348 mL	0.174 mL	0.348 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

Tamayo NA, et al. Targeting the Mitotic Kinesin KIF18A in Chromosomally Unstable Cancers: Hit Optimization Toward an In Vivo Chemical Probe. J Med Chem. 2022 Mar 24;65(6):4972-4990.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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