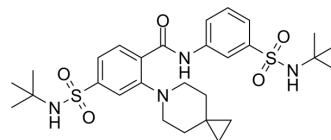


## KIF18A-IN-1

<b>Cat. No.:</b>	HY-145034		
<b>CAS No.:</b>	2600559-12-2		
<b>Molecular Formula:</b>	C <sub>28</sub> H <sub>40</sub> N <sub>4</sub> O <sub>5</sub> S <sub>2</sub>		
<b>Molecular Weight:</b>	576.77		
<b>Target:</b>	Microtubule/Tubulin		
<b>Pathway:</b>	Cell Cycle/DNA Damage; Cytoskeleton		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (173.38 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	1.7338 mL	8.6690 mL	17.3379 mL
		5 mM	0.3468 mL	1.7338 mL	3.4676 mL
10 mM		0.1734 mL	0.8669 mL	1.7338 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (4.33 mM); Clear solution  2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.33 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	KIF18A-IN-1 is a mitotic kinesin KIF18A inhibitor extracted from patent WO2021026098A1 example 100-13. KIF18A-IN-1 exhibits anti-tumor activity <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	mitotic kinesin KIF18A <sup>[1]</sup>

### REFERENCES

[1]. Tamayo NA, et, al. Kif18a inhibitors. WO2021026098A1.

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

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