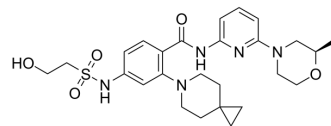


## AM-5308

<b>Cat. No.:</b>	HY-144894		
<b>CAS No.:</b>	2410796-89-1		
<b>Molecular Formula:</b>	C <sub>26</sub> H <sub>35</sub> N <sub>5</sub> O <sub>5</sub> S		
<b>Molecular Weight:</b>	529.65		
<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

#### In Vitro

DMSO : 100 mg/mL (188.80 mM; Need ultrasonic)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.8880 mL	9.4402 mL	18.8804 mL
	5 mM	0.3776 mL	1.8880 mL	3.7761 mL
	10 mM	0.1888 mL	0.9440 mL	1.8880 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (4.72 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (4.72 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

AM-5308 is a potent kinesin KIF18A inhibitor (WO2021211549A1, C13)<sup>[1]</sup>.

### REFERENCES

- [1]. Marc Noel PAYTON, et al. Kif18a inhibitors for treatment of neoplastic diseases. WO2021211549A1.

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

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