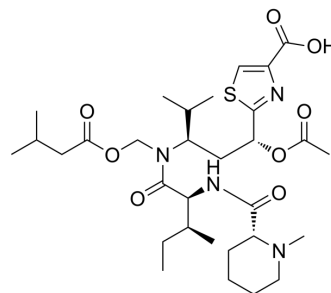


Tubulin polymerization-IN-38

Cat. No.:	HY-148193
CAS No.:	1005192-31-3
Molecular Formula:	C ₃₁ H ₅₀ N ₄ O ₈ S
Molecular Weight:	638.82
Target:	ADC Cytotoxin; Microtubule/Tubulin
Pathway:	Antibody-drug Conjugate/ADC Related; Cell Cycle/DNA Damage; Cytoskeleton
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (156.54 mM; Need ultrasonic)																	
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent Concentration</th> <th rowspan="2">Mass</th> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>1 mM</td> <td>1.5654 mL</td> <td>7.8269 mL</td> <td>15.6539 mL</td> </tr> <tr> <td>5 mM</td> <td>0.3131 mL</td> <td>1.5654 mL</td> <td>3.1308 mL</td> </tr> <tr> <td>10 mM</td> <td>0.1565 mL</td> <td>0.7827 mL</td> <td>1.5654 mL</td> </tr> </tbody> </table>	Solvent Concentration	Mass	1 mg	5 mg	10 mg	1 mM	1.5654 mL	7.8269 mL	15.6539 mL	5 mM	0.3131 mL	1.5654 mL	3.1308 mL	10 mM	0.1565 mL	0.7827 mL	1.5654 mL
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	Please refer to the solubility information to select the appropriate solvent.																	
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (3.91 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (3.91 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (3.91 mM); Clear solution 																	

BIOLOGICAL ACTIVITY

Description	Tubulin polymerization-IN-38 is an analogue of Tubulysin (HY-128914), a potent anticancer agent. Tubulin polymerization-IN-38 inhibits tubulin polymerization (tubulin polymerisation), thereby inducing apoptosis (apoptosis). Tubulysin series products are potent anti-microtubule toxins (anti-microtubule toxins) and can be used as ADC cytotoxins (ADC Cytotoxin) to synthesize ADCs ^[1] .
IC₅₀ & Target	Tubulin polymerisation ^[1]
In Vitro	Tubulin polymerization-IN-38 (example 5) exhibits cytotoxicity against L929, SW-480 and KB-3-1 with IC ₅₀ s of 2.2 ng/mL, 0.35 ng/mL and 1.5 ng/mL, respectively ^[1] .

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Jonathan A. Ellman, et al. Tubulysin d analogues. WO2009012958A2.

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

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