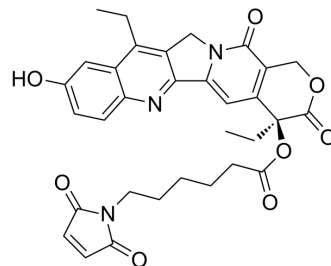


MC-SN38

Cat. No.:	HY-136170		
CAS No.:	1473403-87-0		
Molecular Formula:	C ₃₂ H ₃₁ N ₃ O ₈		
Molecular Weight:	585.6		
Target:	Drug-Linker Conjugates for ADC		
Pathway:	Antibody-drug Conjugate/ADC Related		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 140 mg/mL (239.07 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.7077 mL	8.5383 mL	17.0765 mL
5 mM	0.3415 mL	1.7077 mL	3.4153 mL
10 mM	0.1708 mL	0.8538 mL	1.7077 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: ≥ 5.75 mg/mL (9.82 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 5.75 mg/mL (9.82 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

MC-SN38 is a agent-linker conjugate composed of a potent microtubule-disrupting agent SN38 and a non-cleavable MC linker to make antibody agent conjugate (ADC). SN-38, an active metabolite of the Topoisomerase I inhibitor Irinotecan, inhibits DNA synthesis and causes frequent DNA single-strand breaks^{[1][2]}.

REFERENCES

- [1]. Jensen NF, et al. Characterization of DNA topoisomerase I in three SN-38 resistant human colon cancer cell lines reveals a newpair of resistance-associated mutations. J Exp Clin Cancer Res. 2016 Mar 31;35:56.

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

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