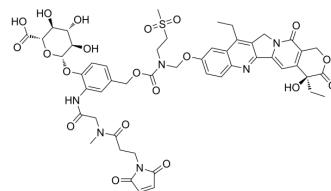


MAC glucuronide phenol-linked SN-38

Cat. No.:	HY-128943
CAS No.:	2246380-69-6
Molecular Formula:	C ₅₀ H ₅₄ N ₆ O ₂₀ S
Molecular Weight:	1091.06
Target:	Drug-Linker Conjugates for ADC
Pathway:	Antibody-drug Conjugate/ADC Related
Storage:	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (91.65 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	0.9165 mL	4.5827 mL	9.1654 mL
		5 mM	0.1833 mL	0.9165 mL	1.8331 mL
	10 mM	0.0917 mL	0.4583 mL	0.9165 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 5 mg/mL (4.58 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (2.29 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	MAC glucuronide phenol-linked SN-38 is a pH-susceptible lactone MAC glucuronide phenol-linked SN-38 (DNA topoisomerase I inhibitor) agent linker. MAC glucuronide phenol-linked SN-38 is cytotoxic across L540cy cells and Ramos cells with IC ₅₀ values of 113 and 67 ng/mL, respectively. Albumin-coupled MAC glucosidol-linked SN-38 shows good stability in mouse plasma ^{[1][2]} .
IC₅₀ & Target	Camptothecins

REFERENCES

[1]. Lim JH, et al. Evaluation of In Vivo Prepared Albumin-Drug Conjugate Using Immunoprecipitation Linked LC-MS Assay and Its Application to Mouse Pharmacokinetic Study. *Molecules*. 2023 Apr 4;28(7):3223.

[2]. Lau UY, et al. Lactone Stabilization is Not a Necessary Feature for Antibody Conjugates of Camptothecins. *Mol Pharm*. 2018 Sep 4;15(9):4063-4072.

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

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