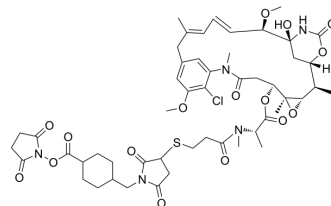


SMCC-DM1

Cat. No.:	HY-101070
CAS No.:	1228105-51-8
Molecular Formula:	C ₅₁ H ₆₆ ClN ₅ O ₁₆ S
Molecular Weight:	1072.61
Target:	Drug-Linker Conjugates for ADC
Pathway:	Antibody-drug Conjugate/ADC Related
Storage:	-80°C, stored under nitrogen



SOLVENT & SOLUBILITY

In Vitro	DMSO : 16.67 mg/mL (15.54 mM); ultrasonic and warming and heat to 80°C						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	0.9323 mL	4.6615 mL	9.3231 mL
				5 mM	0.1865 mL	0.9323 mL	1.8646 mL
				10 mM	0.0932 mL	0.4662 mL	0.9323 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: 2 mg/mL (1.86 mM); Clear solution; Need ultrasonic						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2 mg/mL (1.86 mM); Clear solution; Need ultrasonic						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2 mg/mL (1.86 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	SMCC-DM1 (DM1-SMCC) is a agent-linker conjugate composed of a potent microtubule-disrupting agent DM1 and a linker SMCC to make antibody agent conjugate (ADC) ^[1] .
IC ₅₀ & Target	Maytansinoids
In Vitro	SMCC-DM1 inhibits HCC1954 and MDA-MB-468 cells proliferation with IC ₅₀ s of 17.2 and 49.9 nM, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Mol Ther. 2022 Apr 18;S1525-0016(22)00237-4.
- Cancer Lett. 2022: 216024.
- Mbio. 2022 Jan 18;e0338421.
- Int J Mol Sci. 2022, 23(20), 12358.
- Monoclon Antib Immunodiagn Immunother. 2020 Apr;39(2):37-44.

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REFERENCES

[1]. Shao S, et al. Site-specific and hydrophilic ADCs through disulfide-bridged linker and branched PEG. Bioorg Med Chem Lett. 2018 May 1;28(8):1363-1370.

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

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