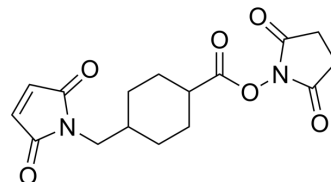


SMCC

Cat. No.:	HY-42360
CAS No.:	64987-85-5
Molecular Formula:	C ₁₆ H ₁₈ N ₂ O ₆
Molecular Weight:	334.32
Target:	ADC Linker
Pathway:	Antibody-drug Conjugate/ADC Related
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (74.78 mM; Need ultrasonic)
H₂O : < 0.1 mg/mL (ultrasonic) (insoluble)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.9911 mL	14.9557 mL	29.9115 mL
	5 mM	0.5982 mL	2.9911 mL	5.9823 mL
	10 mM	0.2991 mL	1.4956 mL	2.9911 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 (7.48 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (7.48 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (7.48 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

SMCC is a protein crosslinker. SMCC-conjugated antigen coupled spleen cells to induce antigen-specific immune responses [1].

In Vitro

SMCC or sulfo-SMCC can use to conjugate keyhole limpet hemocyanin (KLH) and ovalbumin (OVA). In the the conjugation system, 300 μl KLH or OVA (3 mg) and 30 μl SMCC or Sulfo-SMCC (the final concentration of 0.1 mM) are added in PBS with final volume of 3 ml^[1].

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

In Vivo

Using the SMCC-conjugation method is able to induce potent immune responses to whole protein or peptide antigens by injection of antigen-coupled syngeneic splenic mononuclear cells in mice^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Guo Y, et al. Potent antigen-specific immune response induced by infusion of spleen cells coupled with succinimidyl-4-(N-maleimidomethyl cyclohexane)-1-carboxylate (SMCC) conjugated antigens. *Int Immunopharmacol.* 2016 Feb;31:158-68.

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

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