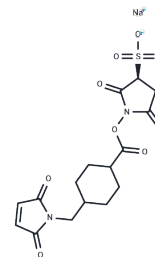


## Sulfo-SMCC sodium

## Chemical Properties

CAS No. :	92921-24-9
Formula:	C <sub>16</sub> H <sub>17</sub> N <sub>2</sub> NaO <sub>9</sub> S
Molecular Weight:	436.37
Storage:	Keep away from direct sunlight,Keep away from moisture,Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



## Biological Description

Description	Sulfo-SMCC sodium, a widely utilized non-cleavable, hetero-bifunctional crosslinker for antibody-drug conjugates (ADCs), features both N-hydroxysuccinimide (NHS) ester and maleimide groups. These functionalities enable it to specifically react with primary amines and sulfhydryl groups, respectively.
Targets(IC50)	ADC Linker,PROTAC Linker
In vitro	Sulfo-SMCC, a crosslinker featuring a maleimide group and an N-hydroxysuccinimide ester, is designed to attach to sulfhydryl groups and primary amines, respectively. It effectively prevents the longitudinal fusion of stabilized Microtubules (MTs), which retain a consistent mean length regardless of incubation duration. This has been demonstrated in experiments where MTs, upon treatment with 250 μM Sulfo-SMCC, were observed at intervals of 0 hours, 6 hours, and 24 hours, showing no change in length over time[1].

## Solubility Information

Solubility	H <sub>2</sub> O: 12 mg/mL (27.5 mM),Sonication is recommended. DMSO: 83.33 mg/mL (190.96 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (9.17 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.2916 mL	11.4582 mL	22.9163 mL
5 mM	0.4583 mL	2.2916 mL	4.5833 mL
10 mM	0.2292 mL	1.1458 mL	2.2916 mL
50 mM	0.0458 mL	0.2292 mL	0.4583 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Prabhune M, et al. Sulfo-SMCC Prevents Annealing of Taxol-Stabilized Microtubules In Vitro. PLoS One. 2016 Aug 25;11(8):e0161623.

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