



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

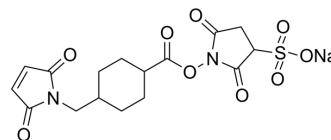
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Sulfo-SMCC sodium

Cat. No.:	HY-D0975
CAS No.:	92921-24-9
Molecular Formula:	C ₁₆ H ₁₇ N ₂ NaO ₉ S
Molecular Weight:	436.37
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 : 125 mg/mL (286.45 mM; Need ultrasonic)
H₂O : 5 mg/mL (11.46 mM; ultrasonic and warming and heat to 60°C)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: PBS
Solubility: 4.17 mg/mL (9.56 mM); Clear solution; Need ultrasonic and warming and heat to 60°C
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (4.77 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (4.77 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (4.77 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Sulfo-SMCC sodium is a commonly used hetero-bifunctional, noncleavable ADC crosslinker bearing N-hydroxysuccinimide (NHS) ester and maleimide groups to react with primary amines and sulfhydryl groups, respectively.

IC₅₀ & Target

Non-cleavable Linker

In Vitro

The crosslinker Sulfo-SMCC consists of a maleimide and an N-hydroxysuccinimide ester group to bind to sulfhydryl groups and primary amines, respectively. Sulfo-SMCC inhibits the end-to-end annealing of stabilized Microtubules (MTs). MTs are treated with 250 μM Sulfo-SMCC, and imaged after incubation for 0 h, 6 h, and 24 h. MTs treated with Sulfo-SMCC shows a constant mean length, independent of the incubation time^[1].

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

PROTOCOL

Kinase Assay ^[1]

Labeled and unlabeled porcine tubulin powders are used. Sulfo-SMCC is used. MTs are polymerized to a final concentration of 2 mg/mL in 80 mM PIPES buffer (pH 6.8) containing 10 μM taxol, 2 mM MgCl_2 , 0.5 mM EGTA, and 1 mM GTP. A mixture of rhodamine-labeled tubulin and unlabeled tubulin (1:5) is used in the time-dependent measurements. In these experiments, polymerized MTs are divided in 2 groups: control and Sulfo-SMCC (250 μM) treated. Both samples are imaged after diluting 1:5 and incubating for 0 h (within 45 minutes after polymerization), 6 h, and 24 h^[1].

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

CUSTOMER VALIDATION

- BMC Med. 2022 Aug 24;20(1):257
- Microb Cell Fact. 2021 Mar 10;20(1):67.
- Commun Biol. 2023 Oct 4;6(1):1008.

See more customer validations on www.MedChemExpress.com

REFERENCES

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

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA