



# 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

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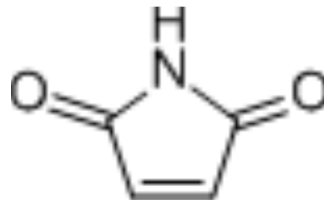
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## Maleimide

<b>Cat. No.:</b>	HY-W007324		
<b>CAS No.:</b>	541-59-3		
<b>Molecular Formula:</b>	C <sub>4</sub> H <sub>3</sub> NO <sub>2</sub>		
<b>Molecular Weight:</b>	97.07		
<b>Target:</b>	ADC Linker		
<b>Pathway:</b>	Antibody-drug Conjugate/ADC Related		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 100 mg/mL (1030.18 mM)  
 H<sub>2</sub>O : 50 mg/mL (515.09 mM; Need ultrasonic)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		10.3018 mL	51.5092 mL	103.0184 mL
	5 mM		2.0604 mL	10.3018 mL	20.6037 mL
	10 mM		1.0302 mL	5.1509 mL	10.3018 mL

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

#### In Vivo

- Add each solvent one by one: PBS  
Solubility: 60 mg/mL (618.11 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (25.75 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (25.75 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (25.75 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Maleimide can be used for production of antibody-drug conjugate (ADC) which is used in cancer research. Maleimide also be leveraged for the preparation of fluorogenic probe, which is mainly used for the specific detection of thiol analytes<sup>[1][2]</sup>.

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## REFERENCES

- [1]. Renault K, et, al. Covalent Modification of Biomolecules through Maleimide-Based Labeling Strategies. *Bioconjug Chem*. 2018 Aug 15;29(8):2497-2513.
- [2]. Zhang S, et, al. A Maleimide-functionalized Tetraphenylethene for Measuring and Imaging Unfolded Proteins in Cells. *Chem Asian J*. 2019 Mar 15;14(6):904-909.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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