



# 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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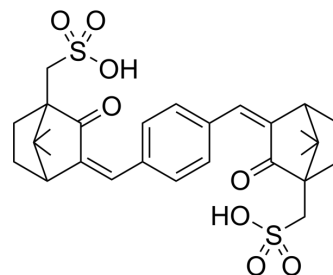
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## Ecamsule

<b>Cat. No.:</b>	HY-16182		
<b>CAS No.:</b>	92761-26-7		
<b>Molecular Formula:</b>	C <sub>28</sub> H <sub>34</sub> O <sub>8</sub> S <sub>2</sub>		
<b>Molecular Weight:</b>	562.69		
<b>Target:</b>	Biochemical Assay Reagents		
<b>Pathway:</b>	Others		
<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

Ethanol : 50 mg/mL (88.86 mM; Need ultrasonic)  
Methanol : 31.25 mg/mL (55.54 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.7772 mL	8.8859 mL	17.7718 mL
	5 mM	0.3554 mL	1.7772 mL	3.5544 mL
	10 mM	0.1777 mL	0.8886 mL	1.7772 mL

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

#### In Vivo

- Add each solvent one by one: 10% EtOH >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (4.44 mM); Clear solution
- Add each solvent one by one: 10% EtOH >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (4.44 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Ecamsule is a broad-spectrum UVA filter that can be used in sunscreen product. Ecamsule reduces biological damage caused by solar radiation such as pyrimidine dimer formation, p53 protein accumulation, or collagenase 2 expression. Ecamsule has the potential for the research of polymorphous light eruption (PMLE) <sup>[1]</sup> <sup>[2]</sup>.

#### In Vitro

Ecamsule is a broad-spectrum UVA-absorber with maximum absorbance at 344 nm<sup>[1]</sup>. Wild-type Fibs E6/E7 cells are more sensitive towards Ecamsule (200-1600 μM) treatment<sup>[1]</sup>. Ecamsule counteracts UV and AAPH induced ROS-formation<sup>[1]</sup>. The effects are dose-dependent, reaching a maximum ROS reduction by 25.7% at the highest tested concentration of 1600 μM in the UV-setting. With the same concentration of Ecamsule, oxidative stress that had been triggered by AAPH is reduced

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by 10.8% and basal levels are attenuated by 16.9%<sup>[1]</sup>.  
. Ecamsule increases the viability at the highest applied concentration of 1600  $\mu$ M in the AAPH-treated cells<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

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[1]. Stefanie Hofer, et al. Contradictory effects of chemical filters in UV/ROS-stressed human keratinocyte and fibroblast cells. ALTEX. 2019;36(2):231-244.

[2]. DeLeo VA, et al. A new ecamsule-containing SPF 40 sunscreen cream for the prevention of polymorphous light eruption: a double-blind, randomized, controlled study in maximized outdoor conditions. Cutis. 2009 Feb;83(2):95-103.

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

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