



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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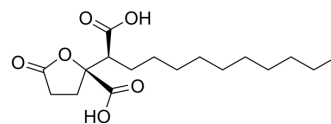
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## Spiculisporic acid

<b>Cat. No.:</b>	HY-N7078		
<b>CAS No.:</b>	469-77-2		
<b>Molecular Formula:</b>	C <sub>17</sub> H <sub>28</sub> O <sub>6</sub>		
<b>Molecular Weight:</b>	328.4		
<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	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 250 mg/mL (761.27 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	3.0451 mL	15.2253 mL	30.4507 mL
		5 mM	0.6090 mL	3.0451 mL	6.0901 mL
10 mM		0.3045 mL	1.5225 mL	3.0451 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.08 mg/mL (6.33 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (6.33 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.08 mg/mL (6.33 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	Spiculisporic acid is a γ-butenolide isolated from the culture of <i>Aspergillus</i> sp <sup>[1]</sup> . Spiculisporic acid is a microbial biosurfactant and has anti-oxidative stress actions <sup>[2]</sup> .
<b>In Vitro</b>	Spiculisporic acid is a microbial biosurfactant with a unique long chainfatty acid carrying two carboxylic moieties and a lactonering. Spiculisporic acid is nontoxic in the envi-ronment and has anti-oxidative stress actions in biolocal systems by means of the yeast DNA microarray bioassay <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

- [1]. Wang R, et al. Spiculisporic acids B–D, three new  $\gamma$ -butenolide derivatives from a sea urchin-derived fungus *Aspergillus* sp. HDF2. *Molecules*. 2012 Nov 5;17(11):13175-82.
- [2]. Ishigami Y, et al. Molecular and crystal structure of spiculisporic acid and correlation with the surface activity. *J Oleo Sci*. 2013;62(10):795-802.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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