



# 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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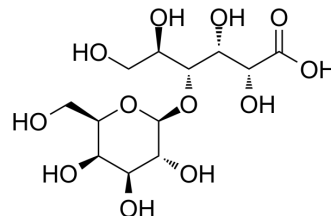
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## Lactobionic acid

<b>Cat. No.:</b>	HY-N7059		
<b>CAS No.:</b>	96-82-2		
<b>Molecular Formula:</b>	C <sub>12</sub> H <sub>22</sub> O <sub>12</sub>		
<b>Molecular Weight:</b>	358.3		
<b>Target:</b>	Bacterial		
<b>Pathway:</b>	Anti-infection		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 125 mg/mL (348.87 mM; Need ultrasonic)  
 DMSO : 100 mg/mL (279.10 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
<b>1 mM</b>	2.7910 mL	13.9548 mL	27.9096 mL
<b>5 mM</b>	0.5582 mL	2.7910 mL	5.5819 mL
<b>10 mM</b>	0.2791 mL	1.3955 mL	2.7910 mL

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

#### In Vivo

- Add each solvent one by one: PBS  
Solubility: 100 mg/mL (279.10 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 (6.98 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (6.98 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (6.98 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Lactobionic acid is a bionic acid naturally found in the Caspian Sea yogurt and chemically constituted of a gluconic acid bonded to a galactose. Lactobionic acid has antioxidant, antimicrobial, chelating, stabilizer, acidulant, and moisturizing properties<sup>[1]</sup>.

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## REFERENCES

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[1]. Cardoso T, et al. Lactobionic Acid as a Potential Food Ingredient: Recent Studies and Applications. J Food Sci. 2019 Jul;84(7):1672-1681.

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

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