



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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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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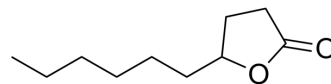
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## Gamma-decalactone

<b>Cat. No.:</b>	HY-N7105		
<b>CAS No.:</b>	706-14-9		
<b>Molecular Formula:</b>	C <sub>10</sub> H <sub>18</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	170.25		
<b>Target:</b>	Biochemical Assay Reagents		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Pure form	-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 (587.37 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	5.8737 mL	29.3686 mL	58.7372 mL
	5 mM	1.1747 mL	5.8737 mL	11.7474 mL
	10 mM	0.5874 mL	2.9369 mL	5.8737 mL

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

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (14.68 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (14.68 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (14.68 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Gamma-decalactone, γ-decalactone is used as an essential food additive with a ruity peach flavor<sup>[1]</sup>. Ricinoleic acid (12-hydroxy-octadec-9-enoic acid) is used as the substrate in most production processes of γ-decalactone<sup>[2]</sup>.

### REFERENCES

[1]. Guan S, et al. Enhanced Biotransformation Productivity of Gamma-Decalactone from Ricinoleic Acid Based on the Expanded Vermiculite Delivery System. J Microbiol

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Biotechnol. 2019 Jul 28;29(7):1071-1077.

[2]. Pereira de Andrade D, et al. Production of  $\gamma$ -Decalactone by Yeast Strains under Different Conditions. Food Technol Biotechnol. 2017 Jun;55(2):225-230.

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

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