



# 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

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

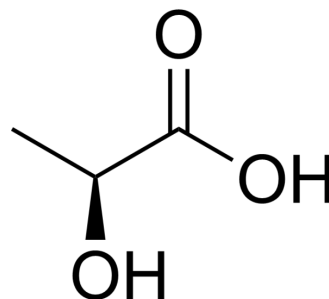
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

## L-Lactic acid

<b>Cat. No.:</b>	HY-Y0479
<b>CAS No.:</b>	79-33-4
<b>Molecular Formula:</b>	C <sub>3</sub> H <sub>6</sub> O <sub>3</sub>
<b>Molecular Weight:</b>	90.08
<b>Target:</b>	Endogenous Metabolite; Bacterial; Antibiotic
<b>Pathway:</b>	Metabolic Enzyme/Protease; Anti-infection
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 100 mg/mL (1110.12 mM; Need ultrasonic)  
DMSO : 100 mg/mL (1110.12 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	11.1012 mL	55.5062 mL	111.0124 mL
	5 mM	2.2202 mL	11.1012 mL	22.2025 mL
	10 mM	1.1101 mL	5.5506 mL	11.1012 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 (1110.12 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.08 mg/mL (23.09 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.08 mg/mL (23.09 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.08 mg/mL (23.09 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

L-Lactic acid is a building block which can be used as a precursor for the production of the bioplastic polymer poly-lactic acid.

#### IC<sub>50</sub> & Target

Human Endogenous Metabolite	Microbial Metabolite	Human Endogenous Metabolite	Microbial Metabolite
-----------------------------	----------------------	-----------------------------	----------------------

---

## CUSTOMER VALIDATION

- Adv Sci (Weinh). 2023 Dec 25:e2304761.
- Small. 2022 Feb 14;e2107236.
- Int J Biol Macromol. 2022 Oct 6;S0141-8130(22)02246-2.
- Int Immunopharmacol. 2023 Nov 23:126:111265.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA