



# 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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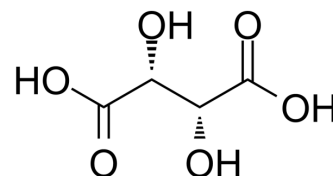
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## L-Tartaric acid

Cat. No.:	HY-Y0293		
CAS No.:	87-69-4		
Molecular Formula:	C <sub>4</sub> H <sub>6</sub> O <sub>6</sub>		
Molecular Weight:	150.09		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (666.27 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	6.6627 mL	33.3133 mL	66.6267 mL
		5 mM	1.3325 mL	6.6627 mL	13.3253 mL
		10 mM	0.6663 mL	3.3313 mL	6.6627 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<p>1. Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (16.66 mM); Clear solution</p> <p>2. Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (16.66 mM); Clear solution</p> <p>3. Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (16.66 mM); Clear solution</p>				

### BIOLOGICAL ACTIVITY

Description	L-tartaric acid (L-(+)-tartaric acid) is an orally active weak organic acid that can be isolated from grapes. L-Tartaric acid has vasodilatory and antihypertensive effects. L-Tartaric acid can be used as flavorings and antioxidants in a range of foods and beverages. L-Tartaric acid can be used in laser frequency doubling and optical limiting applications <sup>[1][2][3][4]</sup> .
In Vitro	L-Tartaric acid (1.66-6.64 mM) significantly reduces NEP and KCL-induced aortic ring vasoconstriction with EC <sub>50</sub> values of 4.119 mM and 4.00 mM, respectively <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	L-Tartaric acid (80-240 mg/kg; P.O.; Single dose) reduces blood pressure in hypertensive mice induced by L-NAME (60 mg/kg)

[3].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Hypertensive Wistar rat model <sup>[3]</sup>
Dosage:	80 mg/kg, 240 mg/kg
Administration:	Oral gavage (p.o.); Single dose. After L-NAME treatment (60mg/kg; p.o.)
Result:	Reduced systolic blood pressure (SABP) and mild blood pressure (mid-BP) in rats at a dose of 240mg/kg, but had no effect on mean artery pressure, diastolic blood pressure, pulse pressure level, and heart rate.

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

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