



# 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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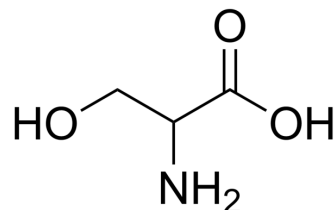
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## DL-Serine

<b>Cat. No.:</b>	HY-Y0507		
<b>CAS No.:</b>	302-84-1		
<b>Molecular Formula:</b>	C <sub>3</sub> H <sub>7</sub> NO <sub>3</sub>		
<b>Molecular Weight:</b>	105.09		
<b>Target:</b>	TMV		
<b>Pathway:</b>	Anti-infection		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 33.33 mg/mL (317.16 mM; Need ultrasonic)  
 DMSO : < 1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble or slightly soluble)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	9.5157 mL	47.5783 mL	95.1565 mL
	5 mM	1.9031 mL	9.5157 mL	19.0313 mL
	10 mM	0.9516 mL	4.7578 mL	9.5157 mL

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

#### In Vivo

1. Add each solvent one by one: PBS  
 Solubility: 25 mg/mL (237.89 mM); Clear solution; Need ultrasonic

### BIOLOGICAL ACTIVITY

#### Description

DL-Serine, a fundamental metabolite, is a mixture of D-Serine and L-Serine. DL-Serine has antiviral activity against the multiplication of tobacco mosaic virus (TMV)<sup>[1]</sup>.

#### In Vivo

Subcutaneous injection of DL-serine increases the number and size of renal tubular cell tumors in male W rats treated with 500 or 1,000 ppm N-ethyl-N-hydroxyethylnitrosamine<sup>[2]</sup>.  
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### CUSTOMER VALIDATION

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- Signal Transduct Target Ther. 2023 Feb 15;8(1):65.

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

## REFERENCES

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- [1]. Hiasa Y, et al. DL-Serine: promoting activity on renal tumorigenesis by N-ethyl-N-hydroxyethylnitrosamine in rats. J Natl Cancer Inst. 1984 Jul;73(1):297-9.
- [2]. VARMA, J. P., et al. Effect of Alanine, Serine and Glutamic Acid on the Multiplication of Tobacco Mosaic Virus in Tobacco. Journal of Phytopathology. 1967, 58(1), 53-58.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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