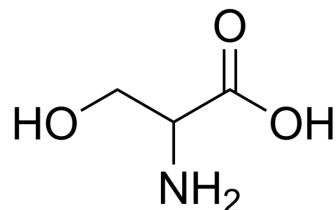


DL-Serine

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



SOLVENT & SOLUBILITY

In Vitro

H₂O : 33.33 mg/mL (317.16 mM; Need ultrasonic)
 DMSO : < 1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble or slightly soluble)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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)^[1].

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^[2].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

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

See more customer validations on www.MedChemExpress.com

REFERENCES

- [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.
-

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

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