N-Acetylserine

Cat. No.:	HY-134222A
CAS No.:	16354-58-8
Molecular Formula:	C ₅ H ₉ NO ₄
Molecular Weight:	147.13
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	-20°C, stored under nitrogen * In solvent : -80°C. 6 months: -20°C. 1 month (stored under nitrogen)

Product Data Sheet

OH

OH

SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 125 mg/mL (849.59 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	6.7967 mL	33.9836 mL	67.9671 mL	
		5 mM	1.3593 mL	6.7967 mL	13.5934 mL	
		10 mM	0.6797 mL	3.3984 mL	6.7967 mL	

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

BIOLOGICAL ACTIVITY				
Description	N-Acetylserine (N-Acetyl-L-serine) can bind to CysB apoprotein. N-acetylserine is the physiological inducer of cysteine biosynthesis. N-Acetylserine can stimulate in vitro cysJIH transcription ^{[1][2]} .			
IC ₅₀ & Target	Human Endogenous Metabolite			

REFERENCES

[1]. Lynch AS, et al. Characterization of the CysB protein of Klebsiella aerogenes: direct evidence that N-acetylserine rather than O-acetylserine serves as the inducer of the cysteine regulon. Biochem J. 1994 Apr 1;299 (Pt 1)(Pt 1):129-36.

[2]. Ostrowski J, et al. Molecular characterization of the cysJIH promoters of Salmonella typhimurium and Escherichia coli: regulation by cysB protein and N-acetyl-Lserine. J Bacteriol. 1989 Jan;171(1):130-40.



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

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