

Product Data Sheet

Product Name: N-Acetyl-L-serine

Cat. No.: GF06014

Chemical Properties

Cas. No. 16354-58-8

Formula $C_5H_9NO_4$ M.Wt 147.13

Solubility Storage $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

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 *cysJH* transcription.

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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- [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-L-serine. *J Bacteriol.* 1989 Jan;171(1):130-40.

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