

Cystathionine  $\beta$ -lyase

## Chemical Properties

CAS No. : 9055-05-4

Formula:

Molecular Weight:

Store at low temperature

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	Cystathionine $\beta$ -lyase is a pyridoxal 5'-phosphate (PLP)-dependent enzyme that cleaves the C $\beta$ -S $\gamma$ bond of cystathionine to convert L-cysteine into L-homocysteine. Cystathionine $\beta$ -lyase is involved in the de novo synthesis of methionine in microorganisms and plants and plays an important role in bacterial virulence.
Targets(IC50)	Others
In vitro	<b>Method:</b> Cystathionine $\beta$ -lyase (25 nM) catalyzed the conversion of L-(+)-cystathionine (100 $\mu$ M) to homocysteine within 10 minutes. The formation of homocysteine was detected by measuring free thiols using 5,5'-dithio-bis-(2-nitrobenzoic acid) (DTNB) at an absorbance of 412 nm. <b>Result:</b> Cystathionine $\beta$ -lyase efficiently catalyzed the formation of homocysteine from L-(+)-cystathionine. The <b>Resulting</b> free thiols were significantly detected by DTNB-based colorimetric assay at 412 nm, indicating good enzymatic activity.[1]

## Solubility Information

Solubility	H2O: 80 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Reference

Ejim LJ, et al. Cystathionine beta-lyase is important for virulence of Salmonella enterica serovar Typhimurium. Infect Immun. 2004 Jun;72(6):3310-4.

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