

## Cystathionine $\beta$ Synthase from Human, recombinant

### Product Information

<b>Cat#</b>	NATE-1667
<b>Similar</b>	CBS
<b>Source</b>	E. coli
<b>Description</b>	Cystathionine- $\beta$ -synthase, also known as CBS, is an enzyme (EC 4.2.1.22) that in humans is encoded by the CBS gene. CBS uses the cofactor pyridoxal-phosphate (PLP) and can be allosterically regulated by effectors such as the ubiquitous cofactor S-adenosyl-L-methionine (adoMet). This enzyme belongs to the family of lyases, to be specific, the hydro-lyases, which cleave carbon-oxygen bonds. CBS is a multidomain enzyme composed of an N-terminal enzymatic domain and two CBS domains. The CBS gene is the most common locus for mutations associated with homocystinuria.
<b>Form</b>	Liquid
<b>Activity</b>	100 U/mg
<b>Unit Definition</b>	One unit is defined as the amount of enzyme required to convert 1.0 nmole of L-homocysteine to cystathionine and hydrogen sulfide per minute in 200 mM Tris pH 8.6 at 37 °C.
<b>Storage</b>	Store at $-20^{\circ}\text{C}$ .
<b>Synonyms</b>	Cystathionine- $\beta$ -synthase; CBS; EC 4.2.1.22; 9023-99-8; Cystathionine $\beta$ -synthase; Beta-thionase; methylcysteine synthase; serine sulfhydrase
<b>Enzyme Commission Number</b>	EC 4.2.1.22
<b>Purity</b>	> 90% by SDS-PAGE
<b>Stability</b>	Stable for at least 1 year as supplied. Avoid repeated freeze and thaw cycles.
<b>Abbr</b>	CBS, Recombinant (Human)
<b>Molecular Weight</b>	61.9 kDa (1-551 aa, NT His Tag)



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**Species**

Human

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