

Recombinant Mouse Cth Protein, MYC/DDK-tagged

Cat. No. Cth-350M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of full-length mouse cystathionase (cystathionine gamma-lyase) (Cth), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Catalyzes the last step in the trans-sulfuration pathway from methionine to cysteine. Has broad substrate specificity. Converts cystathionine to cysteine, ammonia and 2-oxobutanoate. Converts two cysteine molecules to lanthionine and hydrogen sulfide. Can also accept homocysteine as substrate. Specificity depends on the levels of the endogenous substrates. Generates the endogenous signaling molecule hydrogen sulfide (H₂S), and so contributes to the regulation of blood pressure. Acts as a cysteine-protein sulfhydrase by mediating sulfhydration of target proteins: sulfhydration consists of converting -SH groups into -SSH on specific cysteine residues of target proteins such as GAPDH, PTPN1 and NF-kappa-B subunit RELA, thereby regulating their function.
Molecular Mass	43.6 kDa
Purity	>80%, as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 ug/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Cth cystathionase (cystathionine gamma-lyase) [Mus musculus (house mouse)]
Official Symbol	Cth
Synonyms	Cth; cystathionase (cystathionine gamma-lyase); CSE; Cys3; AI314617; BC019483; 0610010I13Rik; cystathionine gamma-lyase; cysteine-protein sulfhydrase; EC 4.4.1.1
Gene ID	107869
mRNA Refseq	NM_145953
Protein Refseq	NP_666065
UniProt ID	Q8VCN5

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