

Recombinant Human CTH, MYC/DDK-tagged

Cat. No. CTH-1335H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CTH, transcript variant 1, fused with C-terminal MYC/DDK, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a cytoplasmic enzyme in the trans-sulfuration pathway that converts cystathione derived from methionine into cysteine. Glutathione synthesis in the liver is dependent upon the availability of cysteine. Mutations in this gene cause cystathioninuria. Alternative splicing of this gene results in three transcript variants encoding different isoforms.
Molecular Mass	44.3 kDa
Purity	>80% as determined by SDS-PAGE and Coomassie blue staining
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 cystathionine gamma-lyase [Homo sapiens (human)]
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Official Symbol	CTH
Synonyms	CTH; cystathionase (cystathionine gamma-lyase); MGC9471; cystathionine gamma-lyase; OTTHUMP00000010945; OTTHUMP00000010946; gamma-cystathionase; homoserine deaminase; cysteine desulfhydrase; homoserine dehydratase; EC 4.4.1.1
Gene ID	1491
mRNA Refseq	NM_001902
Protein Refseq	NP_001893
MIM	607657
UniProt ID	P32929
Chromosome Location	1p31.1
Pathway	Cysteine and methionine metabolism; Glycine; L-cysteine degradation II; Metabolic pathways; Nitrogen metabolism; Selenium Pathway; Selenocompound metabolism;
Function	L-cysteine desulfhydrase activity; cystathionine beta-lyase activity; cystathionine gamma-lyase activity; lyase activity; pyridoxal phosphate binding

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