

Recombinant Human CTH Protein

Cat. No. CTH-929H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CTH, transcript variant 1, was expressed in E. coli.
Species	Human
Source	E.coli
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.
Form	Supplied as a 0.2 μM filtered solution of PBS, pH 7.4
Molecular Mass	44.7kD
AA Sequence	GHMQEKDASSQGFLPHFQHFATQAIHVGQDPEQWTSRAVVPPISLSTTFKQGAPG QHSGFEYSRSGNPTRNCLEKAVAALDGAKYCLAFASGLAATVTITHLLKAGDQIICM DDVYGGTNRYFRQVASEFGLKISFVDCSKIKLLEAAITPETKLWVIETPTNPTQKVIDI EGCAHIVHKHGDILVVDNTFMSPYFQRPLALGADISMYSATKYMNGHSDVVMGLVS VNCESLHNRLRFLQNSLGAVPSPIDCY
Endotoxin	Endotoxin level is <0.1 ng/g of protein (<1EU/g).
Purity	>95% as determined by SDS-PAGE and Coomassie blue staining

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GENE INFORMATION

Gene Name	CTH cystathionase (cystathionine gamma-lyase) [Homo sapiens]
Official Symbol	CTH
Synonyms	CTH; cystathionase (cystathionine gamma-lyase); cystathionine gamma-lyase; gamma-cystathionase; homoserine deaminase; cysteine desulfhydrase; homoserine dehydratase; cysteine-protein sulfhydrase; MGC9471;
Gene ID	1491
mRNA Refseq	NM_001190463
Protein Refseq	NP_001177392
MIM	607657
UniProt ID	P32929

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