

Cystathionase Recombinant Protein | CTH recombinant protein

Recombinant Human Cystathionase

CATALOG # AAA38959	HOST Escherichia Coli
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PRODUCT SYNONYMS

Cystathionase; Recombinant Human Cystathionase; Cystathionine gamma-lyase; Cysteine-protein sulfhydrase; Gamma-cystathionase; CTH; CTH recombinant protein

PRODUCT SPECIFICATIONS

Host	Escherichia Coli
Purity/Purification	Greater than 95.0% as determined by SDS-PAGE.
Form/Format	The CTH solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 2mM DTT, 10% glycerol and 100mM NaCl.
Sequence	<u>MGSSHHH HHHSSGLVPR GSHMQE KDASSQGFLP HFQHFATQAI HVGQDPEQWT SRAVVPISL STTFKQGAPG QHSGFEYSRS GNPTRNCLEK AVAALDGAKY CLAFASGLAA TVTITHLLKA GDQIICMDDV YGGTNRYFRQ VASEFGLKIS FVDCSKIKLL EAAITPETKL VWIETPTNPT QKVIDIEGCA HIVHKHGDII LVDNTFMSP YFQRPLALGA DISMYSATKY MNGHSDVVMG LSVNCELSH NRLRFLQNSL GAVPSPIDCY LCNRGLKTLH VRMEKHFKNG MAVAQFLESN PWVEKVIYPG LPSPHQHELV KRQCTGCTGM VTFYIKGTLQ HAEIFLKNLK LFTLAESLGG FESLAELPAI MTHASVLKND RDVLGISDTL IRLSVGLEDE EDLLEDLDQA LKAAHPPSGS HS.</u>
Sequence Length	373
Physical Appearance	Sterile filtered colorless solution.
Preparation and Storage	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for CTH recombinant protein	Description: CTH Human Recombinant produced in E Coli is a single, non-glycosylated polypeptide chain containing 425 amino acids (1-405) and having a molecular mass of 46.7kDa. CTH is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Introduction: Cystathionine gamma-lyase or cystathionase (CTH) is a member of the trans-sulfuration enzymes family. CTH is an enzyme which breaks down cystathionine into cysteine and alpha-ketobutyrate. The CTH catalyzes the last step in the transsulfuration pathway from methionine to cysteine. Glutathione synthesis in the liver is dependent upon the availability of cysteine. Mutations in the CTH gene cause cystathioninuria.
Product Categories/Family for CTH recombinant protein	Enzymes ; Lyase

NCBI AND UNIPROT INFORMATION

NCBI GI #	299473759
NCBI GeneID	1491
NCBI Accession #	NP_001177392.1

NCBI GenBank Nucleotide #	NM_001190463.1
UniProt Accession #	P32929 ; Q53FB3 ; Q53Y79 ; Q9H4W7 ; Q9H4W8 ; B4E1R2 ; E9PDV0
NCBI Official Full Name	cystathionine gamma-lyase isoform 3
NCBI Official Synonym Full Names	cystathionine gamma-lyase
NCBI Official Symbol	CTH
NCBI Protein Information	cystathionine gamma-lyase; cystathionase (cystathionine gamma-lyase); cysteine desulfhydrase; cysteine-protein sulfhydrase; gamma-cystathionase; homoserine deaminase; homoserine dehydratase
UniProt Protein Name	Cystathionine gamma-lyase
UniProt Gene Name	CTH
UniProt Entry Name	CGL_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/cth-recombinant-protein-escherichia-coli/38959>