Recombinant Human CTH

Cat. No. CTH-1334H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CTH 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	70 mM Tris, pH 8.1, containing 150 mM sodium chloride, 20% glycerol, and 10 μM pyridoxal-5"-phosphate.
Molecular Mass	44.5 kDa
Purity	≥85% estimated by SDS-PAGE
Unit Definition	One unit is fefined as the amount of enzyme required to produce 1umol of TNB per minute at 30℃ in 50 mM Tris, pH 8.6, containing 20uM pyridoxal-5"-phosphate, and 3mM L-cystathionine substrate.
Storage	Store at -80oC

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GENE INFORMATION

Gene Name	CTH cystathionine gamma-lyase [Homo sapiens (human)]
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_001190463
Protein Refseq	NP_001177392
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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