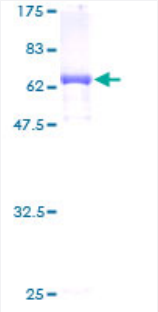
Full-Length

CTH (Human) Recombinant Protein (P01)

Catalog # H00001491-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human CTH full-length ORF (AAH15807, 1 a.a. - 405 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MQEKDASSQGFLPHFQHFATQAIHVGQDPEQWTSRAVVPPISLSTTFKQGAPGQHSGFEYSRSG NPTRNCLEKAVAALDGAKYCLAFASGLAATVTITHLLKAGDQIICMDDVYGGTNRYFRQVASEFGL KISFVDCSKIKLLEAAITPETKLVWIETPTNPTQKVIDIEGCAHIVHKHGDIILVVDNTFMSPYFQRPLA LGADISMYSATKYMNGRSDVVMGLVSVNCESLHNRLRFLQNSLGAVPSPIDCYLCNRGLKTLHVR MEKHFKNGMAVAQFLESNPWVEKVIYPGLPSHPQHELVKRQCTGCTGMVTFYIKGTLQHAEIFLK NLKLFTLAESLGGFESLAELPAIMTHASVLKNDRDVLGISDTLIRLSVGLEDEEDLLEDLDQALKAA HPPSGSHS
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	70.07
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

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Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — CTH

Entrez GeneID	1491
GeneBank Accession#	BC015807
Protein Accession#	AAH15807
Gene Name	CTH
Gene Alias	MGC9471
Gene Description	cystathionase (cystathionine gamma-lyase)
Omim ID	219500 607657
Gene Ontology	Hyperlink
Gene Summary	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 two transcript variants encoding different isoforms. [provided by RefSeq
Other Designations	OTTHUMP00000010945|OTTHUMP00000010946|cystathionase|cysteine desulfhydrase|gamma-cystathionase|homoserine deaminase|homoserine dehydratase

Publication Reference

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- Endogenously produced hydrogen sulfide is involved in porcine oocyte maturation in vitro.

  Nevoral J, Zalmanova T, Zamostna K, Kott T, Kucerova-Chrpova V, Bodart JF, Gelaude A, Prochazka R, Orsak M, Sulc M, Klein P, Dvorakova M, Weingartova I, Vighova A, Hoskova K, Krejcova T, Jilek F, Petr J.

  Nitric Oxide 2015 Dec; 51:24.

  Application: IF, WB, Porcine, Oocytes

- The Effect of Hydrogen Sulfide Donors on Lipopolysaccharide-Induced Formation of Inflammatory Mediators in Macrophages.

  Whiteman M, Li L, Rose P, Tan CH, Parkinson DB, Moore PK.

  Antioxidants & Redox Signaling 2010 May; 12(10):1147.

  Application: Func, Buffer

Pathway

- Cysteine and methionine metabolism
- Glycine
- Metabolic pathways
- Nitrogen metabolism
- Selenoamino acid metabolism

Disease

- Atherosclerosis
- Calcinosis
- Cardiovascular Diseases
- Carotid Stenosis
- Cleft Lip
- Cleft Palate
- Coronary Artery Disease
- Diabetes Mellitus
- Edema

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- Genetic Predisposition to Disease
- Hypertension
- Infertility
- Lung Neoplasms
- Pulmonary Disease
- Spinal Dysraphism
- Urinary Bladder Neoplasms
- Werner syndrome

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