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Datasheet for ABIN1692129 CTH Protein (AA 1-405)



Overview

Quantity:	50 µg
Target:	СТН
Protein Characteristics:	AA 1-405
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purpose:	Recombinant Human Cystathionine γ-Lyase/CTH
Sequence:	GHMQEKDASS QGFLPHFQHF ATQAIHVGQD PEQWTSRAVV PPISLSTTFK QGAPGQHSGF
	EYSRSGNPTR NCLEKAVAAL DGAKYCLAFA SGLAATVTIT HLLKAGDQII CMDDVYGGTN
	RYFRQVASEF GLKISFVDCS KIKLLEAAIT PETKLVWIET PTNPTQKVID IEGCAHIVHK
	HGDIILVVDN TFMSPYFQRP LALGADISMY SATKYMNGHS DVVMGLVSVN CESLHNRLRF
	LQNSLGAVPS PIDCYLCNRG LKTLHVRMEK HFKNGMAVAQ FLESNPWVEK VIYPGLPSHP
	QHELVKRQCT GCTGMVTFYI KGTLQHAEIF LKNLKLFTLA ESLGGFESLA ELPAIMTHAS
	VLKNDRDVLG ISDTLIRLSV GLEDEEDLLE DLDQALKAAH PPSGSHS
Characteristics:	Recombinant Human Cystathionine γ-Lyase/CTH
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

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Target Details

Target:	CTH
Alternative Name:	Cystathionine gamma-Lyase/CTH (CTH Products)
Background:	Recombinant Human Cystathionine γ -Lyase/CTH is produced with our E. coli expression
	system. The target protein is expressed with sequence (Met1-Ser405) of Human CTH.
	Cystathionine γ -Lyase (CTH) belongs to the trans-sulfuration enzymes family. CTH exists as a
	homotetramer and interacts with CALM in a calcium-dependent manner. CTH breaks down
	cystathionine into cysteine, ammonia and 2-oxobutanoate. CTH catalyzes the last step in the
	trans-sulfuration pathway from methionine to cysteine and has broad substrate specificity.
	Defects in CTH will lead to cystathioninuria, which is an autosomal recessive phenotype
	characterized by abnormal accumulation of plasma cystathionine.
Molecular Weight:	44.7kDa
UniProt:	P32929
Pathways:	ER-Nucleus Signaling, Warburg Effect
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 $\mu\text{g/mL}.$
	Dissolve the lyophilized protein in ddH20.
	Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Supplied as a 0.2 μm filtered solution of 20 mM PB,150 mM NaCl,20 % Glycerol, pH 7.4.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	-80 °C
Storage Comment:	Store at < -20°C, stable for 6 months after receipt.
	Please minimize freeze-thaw cycles.
Expiry Date:	6 months