

Product datasheet

Recombinant Human Cystathionase/CTH protein
ab123201

1 Image

Description	
Product name	Recombinant Human Cystathionase/CTH protein
Purity	> 95 % SDS-PAGE. ab123201 is purified using conventional chromatography techniques.
Expression system	Escherichia coli
Accession	<u>P32929</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MGSSHHHHHH SSGLVPRGSH MQEKDASSQG FLPHFQHFAT QAIHVGQDPE QWTSRAVVPP ISLSTTFKQG APGQHS GF EY SRSGNPTRNC LEKAVAALDG AKYCLAFASG LAATVTITHL LKAGDQIICM DDVYGGTNRY FRQVASEFGL KISFVDCSKI KLLEAAITPE TKLVWIETPT NPTQKVIDIE GCAHIVHKHG DIILVVDNTF MSPYFQRPLA LGADISMYS A TKYMNGHSDV VMGLVSVNCE SLHNRLRFLQ NSLGAVPSPI DCYLCNRGLK TLHVRMEKHF KNGMAVAQFL ESNPWVEKVI YGPLPSHPQH ELVKRQCTGC TGMVTFYIKG TLQHAEIFLK NLKLFTLAES LGGFESLAEL PAIMTHASVL KNDRDVLGIS DTLIRLSVGL EDEEDLLEDL DQALKAAHPP SGSHS
Predicted molecular weight	47 kDa including tags
Amino acids	1 to 405
Tags	His tag N-Terminus

Specifications	
Our Abpromise guarantee covers the use of ab123201 in the following tested applications.	
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.	
Applications	Mass Spectrometry

	SDS-PAGE
Mass spectrometry	MALDI-TOF
Form	Liquid
Additional notes	This product was previously labelled as Cystathionase

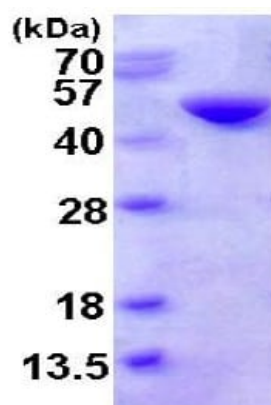
Preparation and Storage

Stability and Storage	<p>Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.</p> <p>pH: 8.00</p> <p>Constituents: 0.03% DTT, 0.32% Tris HCl, 10% Glycerol (glycerin, glycerine), 0.58% Sodium chloride</p>
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General Info

Function	Catalyzes the last step in the transsulfuration pathway from methionine to cysteine. Has broad substrate specificity. Converts cystathionine to cysteine, ammonia and 2-oxobutanoate. Converts two cysteine molecules to lanthionine and hydrogen sulfide. Can also accept homocysteine as substrate. Specificity depends on the levels of the endogenous substrates. Generates the endogenous signaling molecule hydrogen sulfide (H ₂ S), and so contributes to the regulation of blood pressure.
Pathway	Amino-acid biosynthesis; L-cysteine biosynthesis; L-cysteine from L-homocysteine and L-serine: step 2/2.
Involvement in disease	Defects in CTH are the cause of cystathioninuria (CSTNU) [MIM:219500]. It is an autosomal recessive phenotype characterized by abnormal accumulation of plasma cystathionine, leading to increased urinary excretion.
Sequence similarities	Belongs to the trans-sulfuration enzymes family.
Post-translational modifications	Phosphorylated upon DNA damage, probably by ATM or ATR.
Cellular localization	Cytoplasm.

Images



15% SDS-PAGE showing ab123201 (3 μ g).

SDS-PAGE - Recombinant Human
Cystathionase/CTH protein (ab123201)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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