

AR50158PU-S

Human CTH (1-405, His-tag) - Purified

Alternate names:

Cystathionine gamma-lyase, Gamma-cystathionase

Quantity:

0.1 mg

Concentration:

1mg/ml (determined by Bradford assay)

Background:

CTH (Cystathionine gamma-lyase or cystathionase) belongs to the trans-sulfuration enzymes family. This protein is an enzyme which breaks down cystathionine into cysteine and alpha-ketobutyrate. CTH catalyzes the last step in the transsulfuration pathway from methionine to cysteine.

Uniprot ID:

[P32929](#)

NCBI:

[NP_001893](#)

GeneID:

[1491](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >95% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 10% glycerol, 100mM NaCl

Description:

Recombinant human CTH protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHH SSGLVPRGSH MQEKDASSQG FLPHFQHFAT QAIHVGQDPE QWTSRAVVPP
ISLSTTFKQG APGQHSGFEY SRSGNPTRNC LEKAVAALDG AKYCLAFASG LAATVTITHL
LKAGDQIICM DDVYGGTNRY FRQVASEFGL KISFVDCSKI KLLEAAITPE TKLVWIETPT
NPTQKVIDIE GCAHIVHKHG DIILVVDNTF MSPYFQRPLA LGADISMYSY TKYMNHSDV
VMGLVSVNCE SLHNRLRFLQ NSLGAVPSPI DCYLCNRGLK TLHVRMEKHF KNGMAVAQFL
ESNPWVEKVI YPGLPSHPQH ELVKRQCTGC TGMVTFYIKG TLQHAEIFLK NLKLFTLAES
LGGFESLAE PAIMTHASVL KNDRDVLGIS DTLIRLSVGL EDEEDLLEDL DQALKAHPP SGSHS

Molecular weight: 46.7 kDa (425aa), confirmed by MALDI-TOF

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:

Chiku T., et al. (2009) J. Biol. Chem. 284:11601-11612
Sun Q., et al. (2009) J. Biol. Chem. 284:3076-3085

Pictures:

