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## Recombinant human MMACHC protein

Catalog Number: ATGP1574

#### PRODUCT INFORMATION

#### **Expression system**

E.coli

#### **Domain**

1-282aa

#### **UniProt No.**

09Y4U1

#### **NCBI Accession No.**

NP 056321

#### **Alternative Names**

Methylmalonic aciduria and homocystinuria type C protein, RP11-291L19.3, cblC

#### **PRODUCT SPECIFICATION**

#### **Molecular Weight**

34.3 kDa (306aa) confirmed by MALDI-TOF

#### Concentration

0.5mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

#### **Purity**

> 90% by SDS-PAGE

#### Tag

His-Tag

#### **Application**

SDS-PAGE

#### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

### **BACKGROUND**

#### **Description**

The exact function of MMACHC is not known, however, its C-terminal region shows similarity to TonB, a bacterial protein involved in energy transduction for cobalamin (vitamin B12) uptake. Hence, it is postulated that this protein may have a role in the binding and intracellular trafficking of cobalamin. Mutations in this protein are associated with methylmalonic aciduria and homocystinuria type cblC. Recombinant human MMACHC protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.



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## **Recombinant human MMACHC protein**

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#### **Amino acid Sequence**

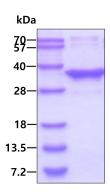
<MGSSHHHHHH SSGLVPRGSH MGSH>MEPKVA ELKQKIEDTL CPFGFEVYPF QVAWYNELLP PAFHLPLPGP TLAFLVLSTP AMFDRALKPF LQSCHLRMLT DPVDQCVAYH LGRVRESLPE LQIEIIADYE VHPNRRPKIL AQTAAHVAGA AYYYQRQDVE ADPWGNQRIS GVCIHPRFGG WFAIRGVVLL PGIEVPDLPP RKPHDCVPTR ADRIALLEGF NFHWRDWTYR DAVTPQERYS EEQKAYFSTP PAQRLALLGL AQPSEKPSSP SPDLPFTTPA PKKPGNPSRA RSWLSPRVSP PASPGP

#### **General References**

Lerner-Ellis JP., et al. (2006) Nat Genet. 38(1):93-100. Tsai AC., et al. (2007) Am. J. Med. Genet. A 143A (20): 2430-4.

### **DATA**

### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

