

Recombinant human MMACHC protein

Catalog Number: ATGP1574

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-282aa

UniProt No.

Q9Y4U1

NCBI Accession No.

NP_056321

Alternative Names

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

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 cbIC. 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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Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGSH>MEPKVA ELKQKIEDTL CPFGEVYYPF QVAWYNELLP PAFHLPLPGP TLAFVLVSTP AMFDRALKPF LQSCHLRMLT DPVDQCVAYH LGRVRESLPE LQIEIIADYE VHPNRRPKIL AQTAHVAGA AYYYQRQDVE ADPWGNQRIS GVCIHPRFGG WFAIRGVVLL PGIEVPDLPP RKPHDCVPTR ADRIALLEGF NFHWRDWTYR DAVTPQERYE EEQKAYFSTP PAQRLALLGL AQPSEKPSPP SPDLPFTTPA PKKPGNPSRA RSWLSPRVSP PASPGP

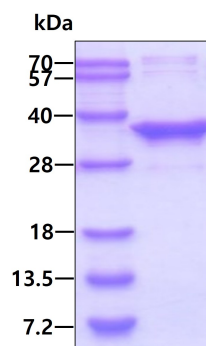
General References

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.