

Product information

MMACHC, 1-282aa

Human, His-tagged, Recombinant, *E.coli*

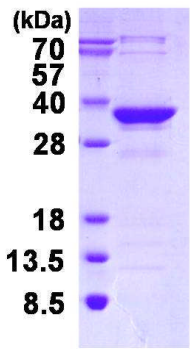
Cat. No. IBATGP1574

Full name: Methylmalonic aciduria and homocystinuria type C protein

NCBI Accession No.: NP_056321

Synonyms: RP11-291L19.3, cbIC

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.

<p>Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT</p> <p>Molecular Weight: 34 kDa (306aa), confirmed by MALDI-TOF</p> <p>Purity: > 90% by SDS - PAGE</p> <p>Concentration: 0.5 mg/ml (determined by Bradford assay)</p>	 <p>15% SDS-PAGE (3ug)</p>
<p>Sequences of amino acids:</p> <p>MGSSHHHHH SSGLVPRGSH MGSHEPKVA ELKQKI EDTL CPFGEVYYPF QVAWYNELLP PAFHLPLPGP TLAFLVLSTP AMFDRALKPF LQSCHLRMLT DPVDQCVAHY LGRVRESLPE LQIEIIADYE VHPNRRPKIL AQTAHVAGA AYYYQRQDVE ADPWGNQRIS GVCIHPRFGG WFAIRGVLL PGIEVPDLPP RKP HDCVPT R ADRIALLEGF NFHWRDWYR DAVTPQERYE EEQKAYFSTP PAQRLALLGL AQPSEKPSPP SPDLPFTTPA PKKPGNPSRA RSWLSRVSP PASPGP</p>	

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.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.