

AR50398PU-S

Human MMACHC (1-282, His-tag) - Purified

Alternate names:

DKFZp564I122, FLJ25671, Methylmalonic aciduria and homocystinuria type C, RP11-291L19.3, cobalamin deficiency

Quantity:

0.1 mg

Concentration:

0.5 mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:

[Q9Y4U1](#)

NCBI:

[NP_056321](#)

GeneID:

[25974](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

Description:

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

AA Sequence:

MGSSHHHHH SGLVPRGSH MGSMEPKVA ELKQKIEDTL CPGFEVYYPF QVAWYNELLP
PAFHLPLPGP TLAFLVLSTP AMFDRALKPF LQSCHLRMLT DPVDQCVAYH LGRVRESLPE
LQIEIIADYE VHPNRRPKIL AQTAHVAGA AYYYQRQDVE ADPWGNQRIS GVCIHPRFEGG
WFAIRGVVLL PGIEVPDLPP RKPHDCVPTR ADRIALLEGF NFHWRDWTYR DAVTPQERY
EEQKAYFSTP PAQRLALLGL AQPSEKPSSP SPDLPTTPA PKKPGNPSRA RSWLSRVSP PASPGP

Molecular weight: 34 kDa (306aa), 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:

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.

Pictures:

