Product information

MMADHC, 39-296aa

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

Cat. No. IBATGP2529

Full name: Methylmalonic aciduria and homocystinuria type D protein **NCBI Accession No**.: NP_056517

Synonyms: C2orf25, cblD, CL25022

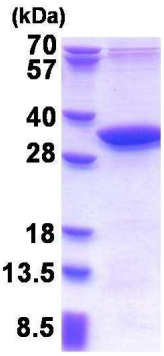
Description: MMADHC is a mitochondrial protein that is involved in an early step of vitamin B_{12} metabolism. Vitamin B_{12} (cobalamin) is essential for normal development and survival in humans. Mutations in this gene cause methylmalonic aciduria and homocystinuria type cblD (MMADHC), a disorder of cobalamin metabolism that is characterized by decreased levels of the coenzymes adenosylcobalamin and methylcobalamin. Recombinant human MMADHC protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

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

Molecular Weight: 31 kDa (281aa) confirmed by MALDI-TOF

Purity: > 90% by SDS - PAGE

Concentration: 1 mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MGSSDESHVA AAPPDICSRT VWPDETMGPF GPQDQRFQLP GNIGFDCHLN GTASQKKSLV HKTLPDVLAE PLSSERHEFV MAQYVNEFQG NDAPVEQEIN SAETYFESAR VECAIQTCPE LLRKDFESLF PEVANGKLMI LTVTQKTKND MTVWSEEVEI EREVLLEKFI NGAKEICYAL RAEGYWADFI DPSSGLAFFG PYTNNTLFET DERYRHLGFS VDDLGCCKVI RHSLWGTHVV VGSIFTNATP DSHIMKKLSG N

General references:

Coelho D, Suormala T, *et al.* (2008). *N Engl J Med.* 358(14):1454-64.

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.

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