

Recombinant Human methylmalonic aciduria (cobalamin deficiency) cbID type, with homocystinuria, His-tagged

Cat. No. MMADHC-432H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MMADHC, 39-296aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	39-296 a.a.
Description	MMADHC is a mitochondrial protein that is involved in an early step of vitamin B12 metabolism. Vitamin B12 (cobalamin) is essential for normal development and survival in humans. Mutations in this gene cause methylmalonic aciduria and homocystinuria type cbID (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 Mass	31 kDa (281aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSSDESHVA AAPPDICSRT VWPDETMGPF GPQDQRFQLP GNIGFDCHLN GTASQKKSLV HKTLPDVLAE PLSSERHEFV

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

MAQYVNEFQG NDAPVEQEIN SAETYFESAR VECAIQTCP E LLRKDFESLF
 PEVANGKLMI LTVTQKTKND MTWVSEEEVEI EREVLLLEKFI NGAKEICYAL
 RAEGYWADFI DPSSGLAFFG PYTNNTLFET DERYRHLGFS VDDLGCCKVI
 RHSLWGTHVV VGSIFTNATP DSHIMKKLSG N

Purity	>90% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	MMADHC methylmalonic aciduria (cobalamin deficiency) cblD type, with homocystinuria [Homo sapiens]
Official Symbol	MMADHC
Synonyms	MMADHC; methylmalonic aciduria (cobalamin deficiency) cblD type, with homocystinuria; C2orf25, chromosome 2 open reading frame 25; methylmalonic aciduria and homocystinuria type D protein, mitochondrial; cblD; CL25022; protein C2orf25, mitochondrial; C2orf25;
Gene ID	27249
mRNA Refseq	NM_015702
Protein Refseq	NP_056517
MIM	611935

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UniProt ID	Q9H3L0
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Chromosome Location	2q23
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