Recombinant Human MMAB, His-tagged

Cat. No. MMAB-787H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MMAB protein (33-250aa), fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Species	Human
Source	E.coli
ProteinLength	33-250 a.a.
Description	MMAB is a protein that catalyzes the final step in the conversion of vitamin B(12) into adenosylcobalamin (AdoCbl), a vitamin B12 containing coenzyme for methylmalonyl-CoA mutase(MCM). Impaired MMAB activity leads to the inherited disorder vitamin B12 dependent methylmalonic aciduria linked to the cblB complementation group.
Sequences	MGSSHHHHHH SSGLVPRGSH MQSRGPQGVE DGDRPQPSSK TPRIPKIYTK TGDKGFSSTF TGERRPKDDQ VFEAVGTTDE LSSAIGFALE LVTEKGHTFA EELQKIQCTL QDVGSALATP CSSAREAHLK YTTFKAGPIL ELEQWIDKYT SQLPPLTAFI LPSGGKISSA LHFCRAVCRR AERRVVPLVQ MGETDANVAK FLNRLSDYLF TLARYAAMKE GNQEKIYKKN DPSAESEGL.
Form	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 0.1M Nacl, 1mM DTT, 10% glycerol.
Molecular Weight	26.3 kDa(239aa),confirmed by MALDI-TOF.

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Purity	> 95% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
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.

GENE INFORMATION

Gene Name	MMAB methylmalonic aciduria (cobalamin deficiency) cblB type [Homo sapiens]
Synonyms	MMAB;methylmalonic aciduria (cobalamin deficiency) cblB type; ATP:cob(I)alamin adenosyltransferase; ATP:corrinoid adenosyltransferase; aquocob(I)alamin vitamin B12s adenosyltransferase; cob(I)alamin adenosyltransferase; cob(I)yrinic acid a,c-diamide adenosyltransferase, mitochondrial; methylmalonic aciduria type B protein; ATR; cob; cblB; MGC20496; EC 2.5.1.17
Gene ID	326625
mRNA Refseq	NM_052845
Protein Refseq	NP_443077
MIM	607568
UniProt ID	Q96EY8
Chromosome Location	12q24
Pathway	Metabolic pathways; Porphyrin and chlorophyll metabolism

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Function	ATP binding;cob(I)yrinic acid a,c-diamide adenosyltransferase activity;nucleotide binding;transferase activity
PDB rendering based on 2idx.	

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