

# Recombinant human MMAB protein

Catalog Number: ATGP0677

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

33-250aa

### UniProt No.

Q96EY8

### NCBI Accession No.

AAH05054

### Alternative Names

Methylmalonic aciduria (cobalamin deficiency) cbIB type, ATR, ATP:cob(I)alamin adenosyltransferase, Methylmalonic aciduria (cobalamin deficiency) cbIB type

## PRODUCT SPECIFICATION

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### Molecular Weight

26.3 kDa (239aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 10% glycerol

### Purity

> 95% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### 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 cbIB complementation group. Recombinant human MMAB protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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### Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MQSRGPQGVE DGDRPQPSSK TPRIPKIYTK TGDKGFSSTF TGERRPKDDQ VFEAVGTTDE  
LSSAIGFALE LVTEKGHTFA EELQIQCTL QDVGSALATP CSSAREHLK YTTFKAGPIL ELEQWIDKYT SQLPPLTAFI  
LPSGGKISSA LHFCRAVCRR AERRVVPLVQ MGETDANVAK FLNRLSDYLF TLARYAAMKE GNQEKIYKKN DPSAESEGL

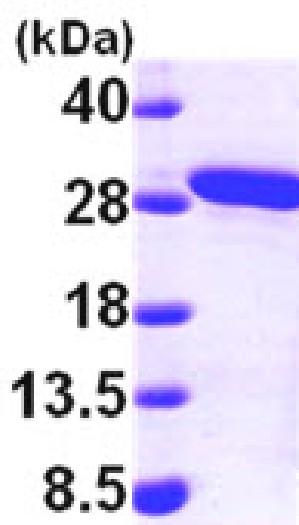
### General References

Gravel RA., et al. (2009) Mol Genet Metab. 98(3):278-84  
Edwards AM., et al (2004) J Biol Chem. 279(22):23646-53.

## DATA

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### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)