Recombinant human MMAB protein

Catalog Number: ATGP0677

PRODUCT INFORMATION

Expression system
E.coli

Domain
33-250aa

UniProt No.
Q96EY8

NCBI Accession No.
AAH05054

Alternative Names
Methylmalonic aciduria (cobalamin deficiency) cblB type, ATR, ATP:cob(I)alamin adenosyltransferase, Methylmalonic aciduria (cobalamin deficiency) cblB type

PRODUCT SPECIFICATION

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

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. 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

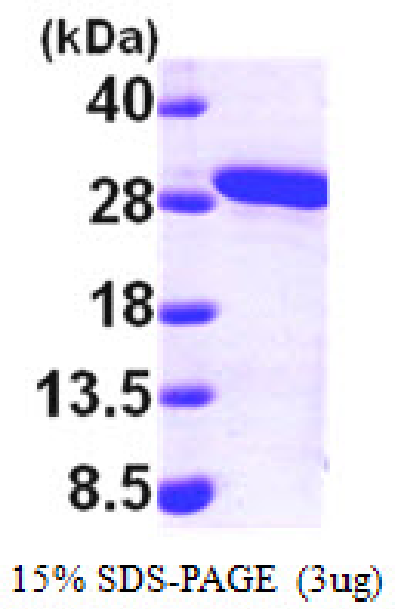
MGSSHHHHHH SSGLVPRGSH MQSRGPQGVE DGDRPQPSSK TPRIPKIYTK TGDKGFSSTF TGERRPKDDQ VFEAVGTTDE LSSAIGFALE LVTEKGHTFA EELQKIQCTL QDVGSALATP CSSAREAHLK YTTFKAGPIL ELEQWIDKYT SQLPPLTAFI LPSGGKISSA LHFCRAVCRR AERRVVPLVQ MGETDANVAK FLNRLSDYLF TLARYAAMKE GNQEKIYKKN DPSAESEGL

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

SDS-PAGE



15% SDS-PAGE (3ug)

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