Recombinant human MMADHC protein

Catalog Number: ATGP2529

PRODUCT INFORMATION

Expression system
E.coli

Domain
39-296aa

UniProt No.
Q9H3L0

NCBI Accession No.
NP_056517

Alternative Names
Methylmalonic aciduria and homocystinuria type D protein, Metabolism of cobalamin associated D, CL25022, cblD, C2orf25

PRODUCT SPECIFICATION

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

Concentration
1mg/ml (determined by Bradford assay)

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

Purity
> 90% 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
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 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.

Amino acid Sequence

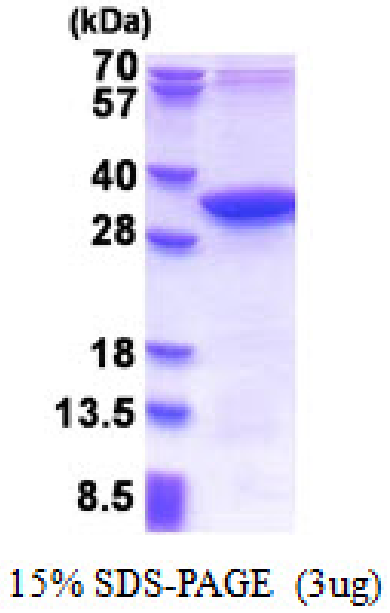
MGSSHHHHHH SSGLVPRGSH MGSSDESHVA AAPPDICSRT VWPDETMGPF GPQDQRFQLP GNIGFDCHLN GTASQKKSLV HKTLPDVLAE PLSSERHEFV MAQYVNEFQG NDAPVEQEIN SAETYFESAR VECAIQTCPE LLRKDFESLF PEVANGKLMI LTVTQKTKND MTVWSEEVEI EREVLLEKFI NGAKEICYAL RAEGYWADFI DPSSGLAFFG PYTNNTLFET DERYRHLGFS VDDLGCCKVI RHSLWGTHVV VGSIFTNATP DSHIMKKLSG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

General References

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

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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