Recombinant human Amnionless protein

Catalog Number: ATGP1866

PRODUCT INFORMATION

Expression system
E.coli

Domain
20-357aa

UniProt No.
Q9BXJ7

NCBI Accession No.
NP_112205

Alternative Names
protein amnionless, PRO1028

PRODUCT SPECIFICATION

Molecular Weight
38.2 kDa (361aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M 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
AMN, also known as amnionless, is a type I transmembrane protein. A complex of amnionless and cubilin forms the cubam receptor. This protein is necessary for efficient absorption of vitamin B12. It is thought to modulate bone morphogenetic protein (BMP) receptor function by serving as an accessory or coreceptor, and thus facilitates or hinders BMP binding. Recombinant human AMN protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

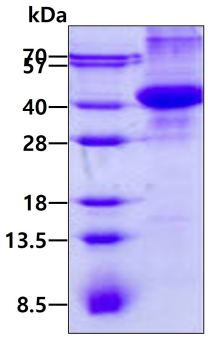
<MGSSHHHHHH SSGLVPRGSH MGS>VSKLWVP NTDFDVAANW SQNRTPCAGG AVEFPADKMV SVLVQEGHAV SDMLLPLDGE LVLASGAGFG VSDVGSHLDC GAGEPAVFRD SDRFSWHDPH LWRSGDEAPG LFFVDAERVP CRHDDVFFPP SASFRVGLGP GASPVRVRSI SALGRTFTRD EDLAVFLASR AGRLRFHGPG ALSVGPEDCA DPSGCVCGNA EAQPWICAAL LQPLGGRCPQ AACHSALRPQ GQCCDLCGAV VLLTHGPAFD LERYRARILD TFLGLPQYHG LQVAVSKVPR SSRLREADTE IQVVLVENGP ETGGAGRLAR ALLADVAENG EALGVLEATM RESGAHVWGS S

General References

Fyfe J.C., et al. (2004) Blood 103:1573-1579
Tomihara-Newberger, C., et al. (1999) Dev. Biol. 204: 34-54.

DATA

SDS-PAGE



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