

# Recombinant human Amnionless protein

Catalog Number: ATGP1866

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

20-357aa

### UniProt No.

Q9BXJ7

### NCBI Accession No.

NP\_112205

### Alternative Names

protein amnionless, PRO1028

## PRODUCT SPECIFICATION

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### 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

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### 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

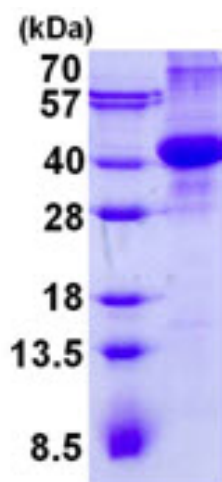
MGSSHHHHHH SSSLVPRGSH MGSVSKLWVP NTDFDVAANW SQNRTPCAGG AVEFPADKMV SVLVQEGHAV  
SDMLLPLDGE LVLASGAGFG VSDVGSGLDC GAGEPAVFRD SDRFSWHDPH LWRSGDEAPG LFFVDAERVP CRHDDVFFPP  
SASFRVGLGP GASPVRVRSI SALGRTFTRD EDLAVFLASR AGRLRFHGGP ALSVGPEDCA DPSGCVCGNA EAQPWICAAL  
LQPLGGRCQP AACHSALRPQ GQCCDLCGAV VLLTHGPAFD LERYRARILD TFLGLPQYHG LQVAVSKVPR SSRLREADTE  
IQVVLVENG P 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.

15% SDS-PAGE (3ug)