

Recombinant human alpha 1-Microglobulin protein

Catalog Number: ATGP1258

PRODUCT INFORMATION

Expression system

E.coli

Domain

20-203aa

UniProt No.

P02760

NCBI Accession No.

NP_001624.1

Alternative Names

Protein AMBP, EDC1, HCP, HI30, IATIL, ITI, ITIL, ITILC, uTI

PRODUCT SPECIFICATION

Molecular Weight

23.1 kDa (205aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl

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

Alpha-1-microglobulin, also known as AMBP, is an immunomodulatory protein with a broad spectrum of possible clinical applications and seems a promising marker for evaluation of tubular function. AMBP specifically interacts with the ORF3 protein of hepatitis E virus and has a direct role in enhancing alpha-1 microglobulin export from the hepatocyte. Recombinant human AMBP 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 M>GPVPTPPDN IQVQENFNIS RIYGKWYNLA IGSTCPWLKK IMDRMTVSTL
VLGEGATEAE ISMTSTRWRK GVCEETSGAY EKTDTDGKFL YHKSQWNITM ESYVVHTNYD EYAIFLTKKF SRHHGPTITA
KLYGRAPQLR ETLLQDFRVV AQGVGIPEDS IFTMADRGEV VPGEQEPEPI LIPRV

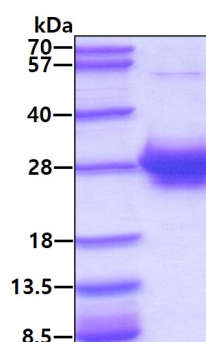
General References

Vetr H., et al. (1990) Bio Chem Hoppe Seyler. 371:1185-1196.

Sala A., et al. (2004) J Biol Chem. 279:51033-51041.

DATA

SDS-PAGE



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