

# Recombinant human MBL protein

Catalog Number: ATGP3749

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

21-248aa

### UniProt No.

P11226

### NCBI Accession No.

NP\_000233.1

### Alternative Names

Mannose binding lectin 2, MBL, Collectin 1, Mannose-binding protein, COLEC1, MBP-C, MBP1, MBP

## PRODUCT SPECIFICATION

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### Molecular Weight

25.1 kDa (237aa)

### Concentration

1mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 90% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### 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

MBL2, also known as mannose-binding protein C, belongs to the class of collectins in the C-type lectin superfamily. It is a lectin that is instrumental in innate immunity via the lectin pathway. It recognizes carbohydrate patterns, found on the surface of a large number of pathogenic micro-organisms, including bacteria, viruses, protozoa and fungi. It binds senescent and apoptotic cells and enhances engulfment of

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whole, intact apoptotic cells, as well as cell debris by phagocytes. This protein has recently been found to play a role in development of type 1 diabetes and gestational diabetes mellitus. Also, mutant MBL2 haplotypes have been linked to disease progression and response to therapy in HCV infection. Recombinant human MBL2, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

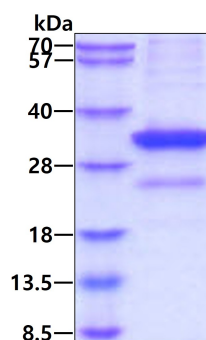
<ADP>ETVTCED AQTCPAVIA CSSPGINGFP GKDGRDGTKG EKGEPPGQLR GLQGPPGKLG PPGNPGPSGS  
PGPKGQKGDG GKSPDGDSSL AASERKALQT EMARIKKWLT FSLGKQVGNK FFLTNGEIMT FEKVKALCVK FQASVATPRN  
AAENGAIQNL IKEEAFLGIT DEKTEGQFVD LTGNRLTYTN WNEGEPNAG SDEDCVLLK NGQWNDVPCS TSHLAVCEFP  
I<HHHHHH>

## General References

Tomaiuolo R., et al. (2012) Aging Cell. 11:394-400.  
Stuart LM., et al. (2005) J Immunol. 174:3220-3226.

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain