Recombinant human MBL protein

Catalog Number: ATGP3749

PRODUCT INFORMATION

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

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

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 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

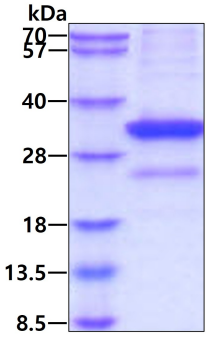
<ADP>ETVTCED AQKTCPAVIA CSSPGINGFP GKDGRDGTKG EKGEPGQGLR GLQGPPGKLG PPGNPGPSGS PGPKGQKGDP GKSPDGDSSL AASERKALQT EMARIKKWLT FSLGKQVGNK FFLTNGEIMT FEKVKALCVK FQASVATPRN AAENGAIQNL IKEEAFLGIT DEKTEGQFVD LTGNRLTYTN WNEGEPNNAG SDEDCVLLLK NGQWNDVPCS TSHLAVCEFP I<HHHHHH>

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



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