Human MBL Protein, His Tag

Catalog # MBL-H5220

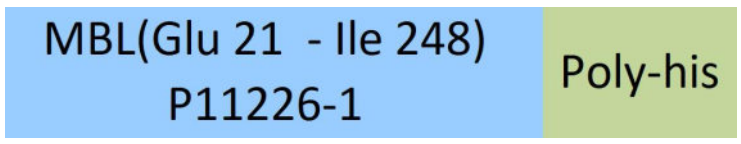
Synonym

MBL,MBL2,MBP1,MBP-C,Collectin-1,COLEC1,HSMBPC,MBL2D,MBPD

Source

Human MBL, His Tag(MBL-H5220) is expressed from human 293 cells (HEK293). It contains AA Glu 21 - Ile 248 (Accession # P11226-1).
Predicted N-terminus: Glu 21

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 25.9 kDa. The protein migrates as 30-38 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

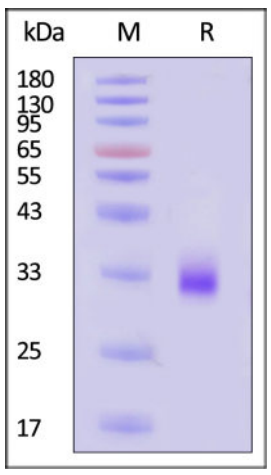
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human MBL, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With Star Ribbon Pre-stained Protein Marker).

Background

Mannose-binding lectin (MBL) is also known as mannose-binding protein, mannan-binding protein (MBP), Mannose-binding protein C, Collectin-1 (COLEC1), MBL2, which belongs to the class of collectins in the C-type lectin superfamily. MBL contains one C-type lectin domain and one collagen-like domain. MBL has an oligomeric structure (400-700 kDa), built of subunits that contain three presumably identical peptide chains of about 30 kDa each. MBL is calcium-dependent lectin involved in innate immune defense. MBL binds mannose, fucose and N-acetylglucosamine on different microorganisms and activates the lectin complement pathway. MBL binds to late apoptotic cells. MBL may bind D.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.