

Recombinant Mouse Mannose-Binding Protein A (Mbl1), N-His

Cat. No.: AP4C794

Product Type: Animal Proteins

Size: 10 µg; 50 µg; 200 µg; 1 mg; 5 mg

Product Overview

BioVenic's Recombinant Mouse Mannose-Binding Protein A (Mbl1), N-His is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 16.4 kDa. The purity is > 95%.

Specifications

Type	Recombinant Protein
Species	Mouse
Expression System	<i>E.coli</i>
Purity	> 95%
Endotoxin	<1.0 EU per 1µg (determined by the LAL method)
Predicted Molecular Weight	16.4 kDa
Physical State	Lyophilized
Formulation	20 mM Tris, 150 mM NaCl, pH8.0, containing 1 mM EDTA, 1 mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.

Target Information

Mouse Mannose-Binding Protein A (Mbl1) is a pattern recognition receptor that plays a crucial role in the innate immune response by recognizing and binding to carbohydrate structures on the surface of pathogens. Mbl1 is a component of the lectin pathway of the complement system, which helps in the opsonization and clearance of pathogens. It is highly expressed in the liver and secreted into the bloodstream, where it binds to mannose and other sugar residues on bacterial surfaces, leading to the activation of the complement cascade and the formation of the membrane attack complex (MAC). In mouse models, Mbl1 deficiency results in increased susceptibility to infections, particularly those caused by encapsulated bacteria. Additionally, Mbl1 has been implicated in the regulation of inflammation and the resolution of immune responses.

Protein	Mouse Mannose-Binding Protein A (Mbl1)
Protein Synonym	MBP-A
Gene ID	17194

Shipping and Storage

This product is shipped with ice packs. Lyophilized protein can be stored at -80°C for 1 year. After reconstitution, the protein solution can be stored at 2-8°C for 2-7 days.

User Note

Always centrifuge tubes before opening. Avoid mixing by vortexing or pipetting. Reconstitute in 20 mM Tris, 150 mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Aliquot the reconstituted solution to minimize freeze-thaw cycles.

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.