

## Recombinant Rabbit Lipopolysaccharide-Binding Protein (LBP), N-His

Cat. No.: AP4C471

Product Type: Animal Proteins

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

### Product Overview

BioVenic's Recombinant Rabbit Lipopolysaccharide-Binding Protein (LBP), N-His is a recombinant protein expressed from *E. coli*. Its predicted molecular weight is 31.9 kDa. The purity is > 97%.

### Specifications

Type	Recombinant Protein
Species	Oryctolagus cuniculus (Rabbit)
Expression System	<i>E. coli</i>
Purity	> 97%
Endotoxin	< 1.0 EU/µg
Predicted Molecular Weight	31.9 kDa
Physical State	Lyophilized
Formulation	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose.

### Target Information

Rabbit Lipopolysaccharide-Binding Protein (LBP) is a key acute-phase protein that plays a crucial role in the immune response to bacterial infections, particularly those caused by Gram-negative bacteria. LBP binds to lipopolysaccharide (LPS), a component of the bacterial cell wall, and enhances the immune response by facilitating the interaction between LPS and immune cells. In rabbits, LBP is synthesized by hepatocytes and its expression increases during inflammation. It helps in the recognition and neutralization of LPS, thereby reducing the harmful effects of bacterial endotoxins. LBP also promotes the activation of immune cells such as macrophages and enhances the production of pro-inflammatory cytokines like TNF-α. This protein is essential for the early detection and response to bacterial infections, making it a vital component of the host defense mechanism.

Protein	Rabbit Lipopolysaccharide-Binding Protein (LBP)
Protein Synonym	LBP
Gene ID	<a href="#">100009124</a>
EC No.	<a href="#">P17454</a>

## 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.

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## User Note

Always centrifuge tubes before opening. Avoid mixing by vortexing or pipetting. Reconstitute in 10 mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Aliquot the reconstituted solution to minimize freeze-thaw cycles.

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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.