

# Recombinant Mouse IL-18BP Protein

Catalog No.: RP01531

## Sequence Information

**Species**      **Gene ID**  
Mouse            16068

**Swiss Prot**    **Tags**  
Q9Z0M9        C-His

**Synonyms**  
MC54L,lgifbp,IL-18BP,IL18BP

## Product Information

**Source**            **Purification**  
HEK293 cells    ≥ 95 % as  
                         determined by  
                         SDS-PAGE.

**Calculated MW** **Observed MW**  
18.81 kDa        30-50 kDa

**Endotoxin**  
< 0.1 EU/μg of the protein by LAL  
method.

**Formulation**  
Lyophilized from a 0.22 μm filtered  
solution of PBS, pH 7.4.

**Reconstitution**  
Centrifuge the vial before opening.  
Reconstitute to a concentration of  
0.1-0.5 mg/mL in sterile distilled  
water. Avoid vortex or vigorously  
pipetting the protein. For long  
term storage, it is recommended  
to add a carrier protein or stabilizer  
(e.g. 0.1% BSA, 5% HSA, 10% FBS  
or 5% Trehalose), and aliquot the  
reconstituted protein solution to  
minimize free-thaw cycles.

## Background

Interleukin-18-binding protein (IL-18BP) is a constitutively expressed and secreted protein. IL-18BP is a cytokine receptor that belongs to the interleukin 1 receptor family. This receptor specifically binds interleukin 18 (IL18) and is essential for IL18 mediated signal transduction. IFN-alpha and IL12 are reported to induce the expression of this receptor in NK and T cells. This gene along with four other members of the interleukin 1 receptor family, including IL1R2, IL1R1, ILRL2 (IL-1Rrp2), and IL1RL1 (T1/ST2), form a gene cluster on chromosome 2q. The adjacently located family members IL18 Receptor 1 (IL18R1) and IL18 receptor accessory protein (IL18RAP) may also be important in the development of asthma and atopy. IL-18 binding protein (IL-18BP) was only moderately elevated, resulting in a high level of biologically active free IL-18 in HPS. A severe IL-18/IL-18BP imbalance results in Th-1 lymphocyte and macrophage activation, which escapes control by NK-cell cytotoxicity and may allow for secondary HPS in patients with underlying diseases.

## Basic Information

### Description

Recombinant Mouse IL-18BP Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Thr29-Ala193) of mouse IL-18BP (Accession #NP\_034661.1) fused with a 6×His tag at the C-terminus.

### Activity

### Shipping

Lyophilized proteins are shipped at ambient temperature.  
Liquid proteins are shipped at frozen temperature with dry ice.  
Upon receipt, store it immediately at the temperature recommended below.

### Storage

Store at -20°C

### Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

## Contact

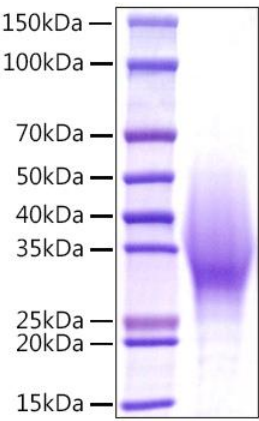
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# Validation Data

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Recombinant Mouse IL-18BP Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.