

# Mouse IL-18BP Protein

Cat. No. IL8-MM1BP

## Description

|                         |  |
|-------------------------|--|
| <b>Source</b>           | Recombinant Mouse IL-18BP Protein is expressed from HEK293 with His tag at the C-Terminus.<br>It contains Thr29-Ala193.            |
| <b>Accession</b>        | Q9Z0M9   |
| <b>Molecular Weight</b> | The protein has a predicted MW of 19.1 kDa. Due to glycosylation, the protein migrates to 45-65 kDa based on Tris-Bis PAGE result. |
| <b>Endotoxin</b>        | Less than 1EU per µg by the LAL method.  |
| <b>Purity</b>           | > 95% as determined by Tris-Bis PAGE<br>> 95% as determined by HPLC  |

## Formulation and Storage

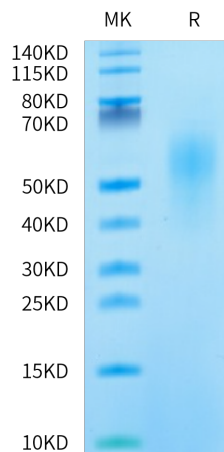
|                       |   |
|-----------------------|---|
| <b>Formulation</b>    | Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.  |
| <b>Reconstitution</b> | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.  |
| <b>Storage</b>        | -20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

## Background

Cytokines were the first modern immunotherapies to produce durable responses in patients with advanced cancer, components of the interleukin-18 (IL-18) pathway are upregulated on tumour-infiltrating lymphocytes, suggesting that IL-18 therapy could enhance anti-tumour immunity. IL-18BP, a high-affinity IL-18 decoy receptor, is frequently upregulated in diverse human and mouse tumours and limits the anti-tumour activity of IL-18 in mice.

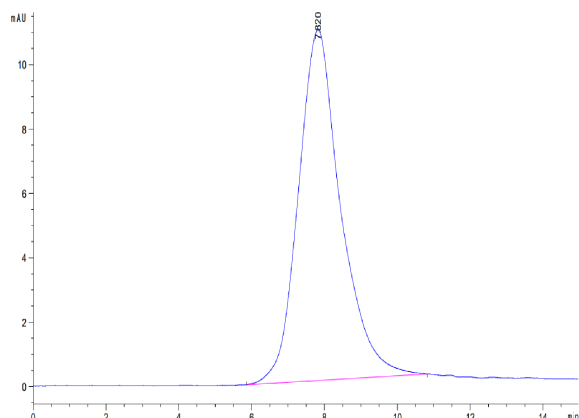
## Assay Data

### Tris-Bis PAGE



Mouse IL-18BP on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



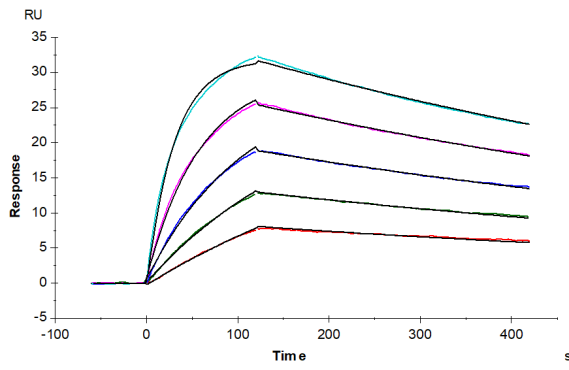
The purity of Mouse IL-18BP is greater than 95% as determined by SEC-HPLC.

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## Assay Data

### SPR Data



Mouse IL-18BP, His Tag captured on CM5 Chip via anti-his antibody can bind Human IL-18, No Tag with an affinity constant of 1.78 nM as determined in SPR assay (Biacore T200).