

Mouse IL-18BP Protein

Cat. No. IL8-MM1BP

Description

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

Formulation and Storage

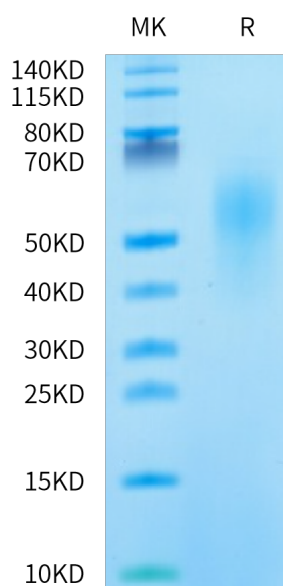
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months 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

Bis-Tris PAGE



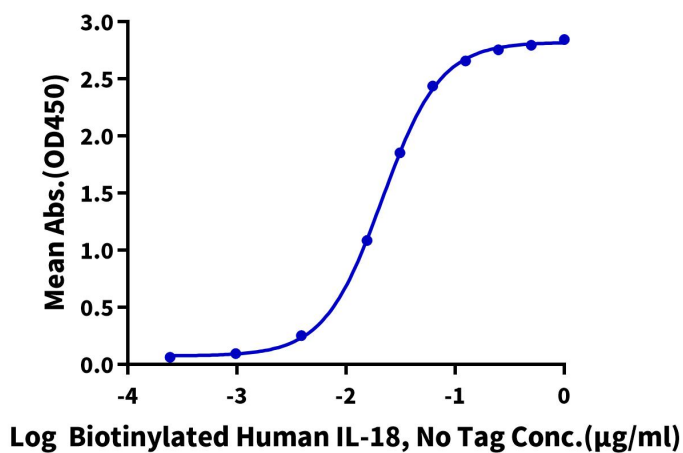
Mouse IL-18BP on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

ELISA Data

Assay Data

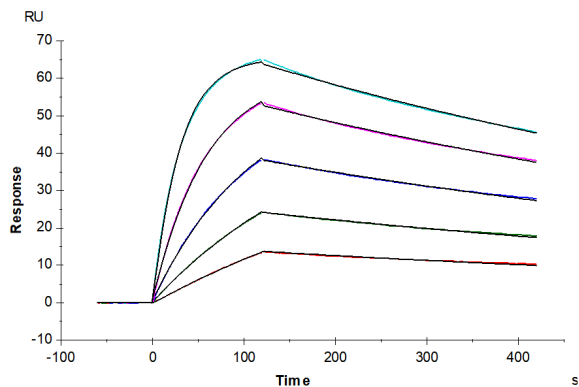
Mouse IL-18BP, His Tag ELISA

0.1µg Mouse IL-18BP, His Tag Per Well



Immobilized Mouse IL-18BP, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated IL-18, No Tag with the EC50 of 21.5ng/ml determined by ELISA (QC Test).

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 0.86 nM as determined in SPR assay (Biacore T200).