

Recombinant Human IL-18BP Protein

Catalog No.: RP00162 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	10068	O95998

Tags

C-hFc&His

Synonyms

IL18BP;IL18BPa

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Calculated MW	Observed MW
44.42 kDa	60-75 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. Contact us for customized product form or formulation.

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.

Contact

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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), prevents the binding of IL18 to its receptor, and thus inhibits IL18-induced IFN-gamma production, resulting in reduced T-helper type 1 immune responses. This protein is constitutively expressed and secreted in mononuclear cells. Elevated level of this protein is detected in the intestinal tissues of patients with Crohn's disease.

Basic Information

Description

Recombinant Human IL-18BP Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Thr31-Gly194) of human IL18BPα (Accession #NP_001034748.1) fused with an Fc, 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human IL18BP at 2 μg/mL (100 μL/well) can bind IL18 with a linear range of 0.128-47.02 ng/mL.

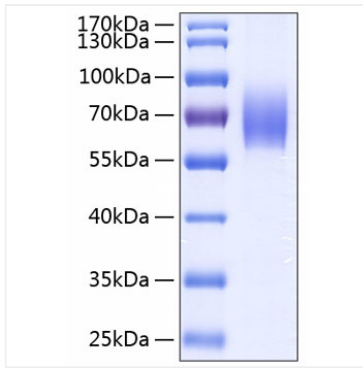
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt.

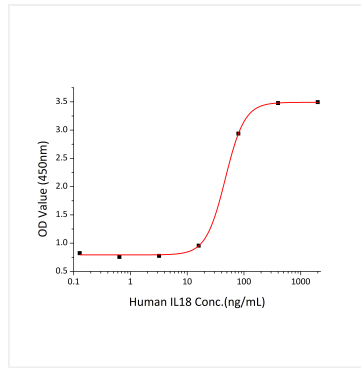
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human IL-18BP Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 60-75 kDa.



Immobilized Human IL18BP at 2 μ g/mL (100 μ L/well) can bind IL18 with a linear range of 0.128-47.02ng/mL.