Recombinant Human IL-18BP Protein

Catalog No.: RP00162

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Sequence Information

Species
Human

Gene ID
10068

Swiss Prot
O95998

Tags
C-hFc&His

Synonyms
IL18BP,IL18BPa

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
44.42 kDa

Observed MW
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 stablizer (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), 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 IL18BPa (Accession #NP_001034748.1) fused with an Fc, 6×His tag at the C-terminus.

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.

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℃

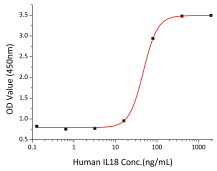
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

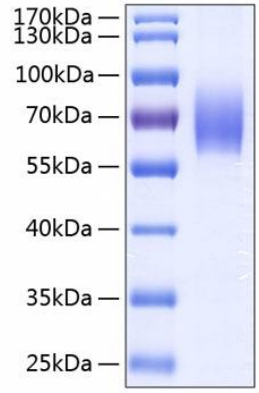
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Validation Data



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



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

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