



Synonym

IL18BP,IL18BPα,Tadakinig-alfa

Source

Biotinylated Human IL-18BP Protein, His,Avitag(ILP-H82E3) is expressed from human 293 cells (HEK293). It contains AA Thr 31 - Gly 194 (Accession # [O95998-2](#)).

Predicted N-terminus: Thr 31

Molecular Characterization

IL-18BP(Thr 31 - Gly 194)
O95998-2 Poly-his Avi

This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 21.2 kDa. The protein migrates as 33-55 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

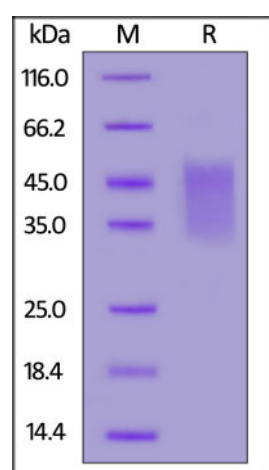
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE

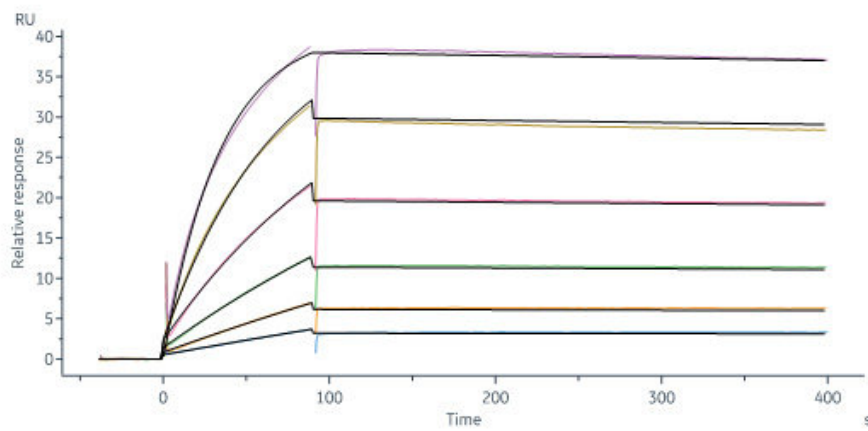


Biotinylated Human IL-18BP Protein, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

Bioactivity-SPR

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Human IL-18 Protein, premium grade (Cat. No. IL8-H5114) immobilized on CM5 Chip can bind Biotinylated Human IL-18BP Protein, His,Avitag (Cat. No. ILP-H82E3) with an affinity constant of 0.184 nM as determined in a SPR assay (Biacore 8K) (QC tested).

Background

Interleukin-18-binding protein (IL18BP) is also known as Tadekinig-alfa, IL18BP α , which functions as an IL18 inhibitor. IL18BP is a secreted protein which contains one Ig-like C2-type (immunoglobulin-like) domain. IL18BP does not have a transmembrane domain and hence is not anchored to the cell membrane. IL18BP is strongly expressed in heart, lung, placenta and spleen. Isoform A of IL18BP binds to IL-18 and inhibits its activity. IL18BP also functions as an inhibitor of the early TH1 cytokine response. IL18BP suppresses the production of IFN-gamma resulting in reduced T-helper type 1 immune responses.

Clinical and Translational Updates

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