



## Synonym

IL18BP,IL18BPa,Tadekinig-alfa

## Source

Human IL-18BP, Fc Tag(ILP-H5253) is expressed from human 293 cells (HEK293). It contains AA Thr 31 - Gly 194 (Accession # [NP\\_001138529](#)).

Predicted N-terminus: Thr 31

## Molecular Characterization

|   |                                 |
|---|---------------------------------|
| IL-18BP(Thr 31 - Gly 194)<br>NP_001138529 | Fc(Pro 100 - Lys 330)<br>P01857 |
|---|---------------------------------|

This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 44.3 kDa. The protein migrates as 56-66 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per µg by the LAL method.

## Purity

>95% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22 µm filtered solution in

Tris with Glycine, Arginine and NaCl, pH7.5 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

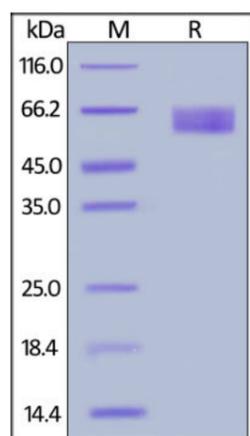
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

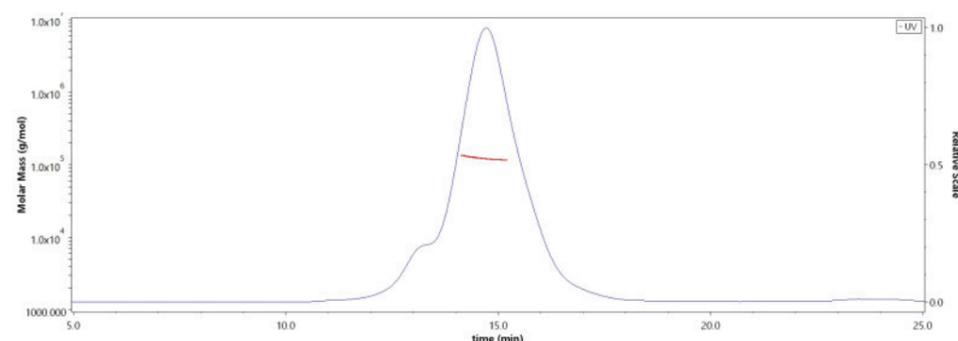
## SDS-PAGE



Human IL-18BP, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

## Bioactivity-SPR

## SEC-MALS

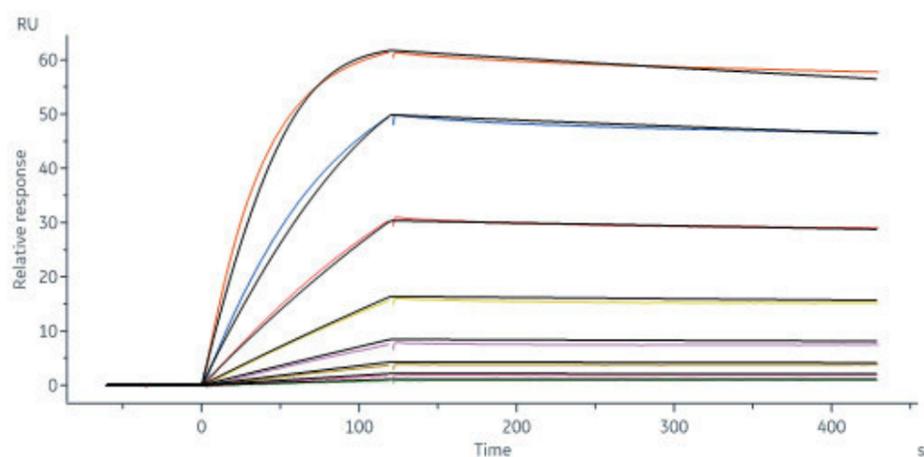


The purity of Human IL-18BP, Fc Tag (Cat. No. ILP-H5253) is more than 85% and the molecular weight of this protein is around 115-135 kDa verified by SEC-MALS.

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Human IL-18BP, Fc Tag (Cat. No. ILP-H5253) captured on CM5 chip via Anti-human IgG Fc antibodies surface can bind Human IL-18, Tag Free with an affinity constant of 1.71 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).

## Background

Interleukin-18-binding protein (IL18BP) is also known as Tadekinig-alfa, IL18BP $\alpha$ , 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

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.

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