

Bioactive

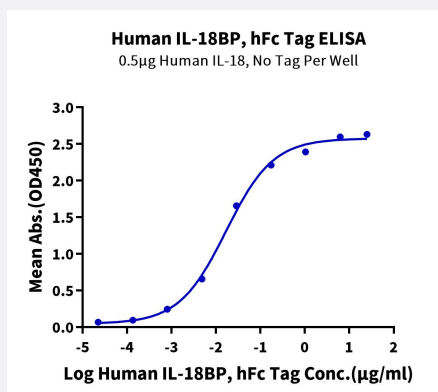
HuPro®

# IL18BP (Human) Recombinant Protein

Catalog # P9919

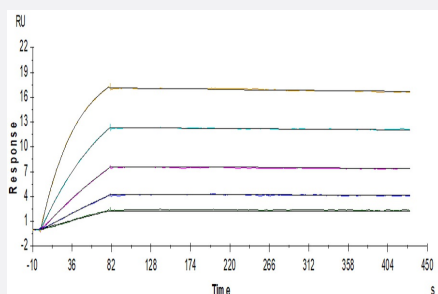
Size 100 ug

## Applications



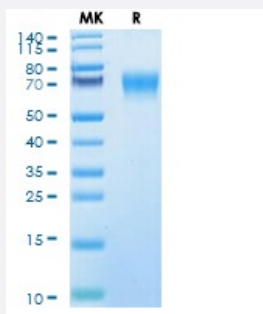
### Enzyme-linked Immunoabsorbent Assay

Immobilized Human IL-18 at 5 ug/mL (100 uL/Well) on the plate. Dose response curve for Human IL-18BP, hFc Tag with the EC50 of 16.9 ng/mL determined by ELISA (QC Test).



### Surface Plasmon Resonance

Human IL-18BP, hFc Tag captured on Protein A chip, can bind Human IL-18 with an affinity constant of 0.04nM as determined in a SPR assay (Biacore T200).



### Tris-Bis PAGE

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

## Specification

Product Description	Human IL18BP (O95998-2, Thr31-Gly194) partial recombinant protein with hFc tag at C-Terminus expressed in HEK293 cells.
Sequence	Thr31-Gly194
Host	Human
Theoretical MW (kDa)	44.4
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The EC <sub>50</sub> was 16.9 ng/mL, measured by ELISA at 5 ug/mL. The affinity constant of 0.04 nM as determined in SPR assay (Biacore T200).
Quality Control Testing	Tris-Bis PAGE Tris-Bis PAGE Human IL-18BP on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity ELISA SDS-PAGE SPR The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis

## Applications

- Enzyme-linked Immunoabsorbent Assay

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- Functional Study

- SDS-PAGE

- Surface Plasmon Resonance

Human IL-18BP, hFc Tag captured on Protein A chip, can bind Human IL-18 with an affinity constant of 0.04nM as determined in a SPR assay (Biacore T200).

## Gene Info — IL18BP

Entrez GeneID [10068](#)

Protein Accession# [O95998-2](#)

Gene Name IL18BP

Gene Alias IL18BPα

Gene Description interleukin 18 binding protein

Omim ID [604113](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** The protein encoded by this gene is an inhibitor of the proinflammatory cytokine IL18. This protein binds to IL18, prevents the binding of IL18 to its receptor, and thus inhibits IL18-induced IFN-γ production. This protein is constitutively expressed and secreted in mononuclear cells. The expression of this protein can be enhanced by IFN-γ. An elevated level of this protein is detected in the intestinal tissues of patients with Crohn's disease. Alternative splicing results in multiple transcript variants. [provided by RefSeq]

**Other Designations** MC51L-53L-54L homolog gene product|OTTHUMP00000179141|OTTHUMP00000179143

## Disease

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- [Anoxia](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Cardiovascular Diseases](#)
- [Chorioamnionitis](#)
- [Coronary Disease](#)

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