



## Synonym

IL-18, Interleukin-18, IL18, IL-1 gamma, IGIF, IL1F4, IL-1F4

## Source

Mouse IL-18 Protein, His Tag(IL8-M51H3) is expressed from E. coli cells. It contains AA Asn 36 - Ser 192 (Accession # [P70380](#)).

Predicted N-terminus: Asn

## Molecular Characterization

IL-18(Asn 36 - Ser 192)  
P70380 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 20.0 kDa. The protein migrates as 20-22 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE).

## Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC 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

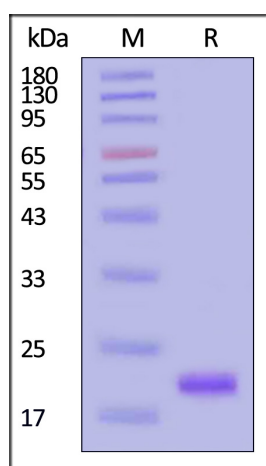
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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



Mouse IL-18 Protein, His Tag on SDS-PAGE under reducing (R) condition.

The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

## Bioactivity-ELISA

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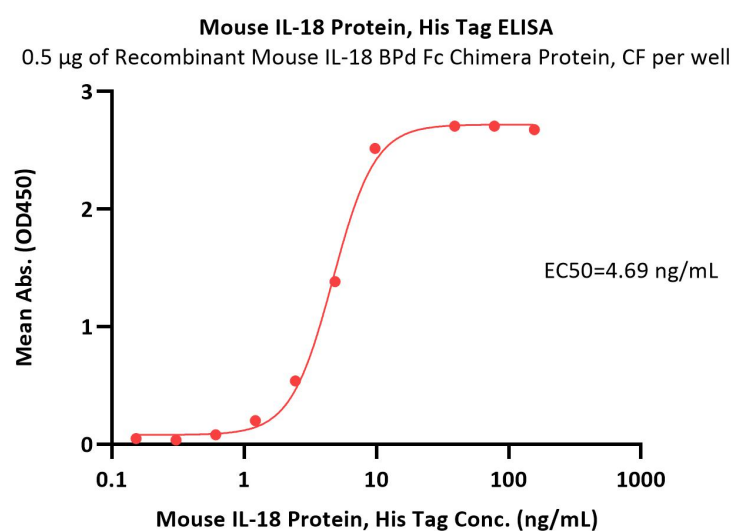
# Mouse IL-18 Protein, His Tag

Catalog # IL8-M51H3



BIOSYSTEMS  
**Acro**

Surprise Inside!



Immobilized Recombinant Mouse IL-18 BPd Fc Chimera Protein, CF at 5 µg/mL (100 µL/well) can bind Mouse IL-18 Protein, His Tag (Cat. No. IL8-M51H3) with a linear range of 0.2-10 ng/mL (QC tested).

## Background

Interleukin-18 (IL-18) is a potent proinflammatory cytokine that induces interferon-gamma (IFN-gamma) production from Th1 cells, NK cells and activated macrophages, particularly in the presence of IL-12. IL-18 also functions in developmental regulation of T-lymphocyte helper type I cells and in Fas-mediated cytotoxicity. Suppression of IL-18 activity is being investigated for treatment of chronic inflammatory diseases such as Crohn's disease and rheumatoid arthritis. It acts by inducing heterodimerization of the two subunits of its receptor, IL-18RA $\alpha$  and IL-18RB $\beta$  shows structural similarity to IL-1.

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