



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.

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

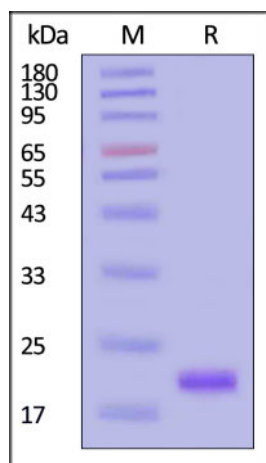
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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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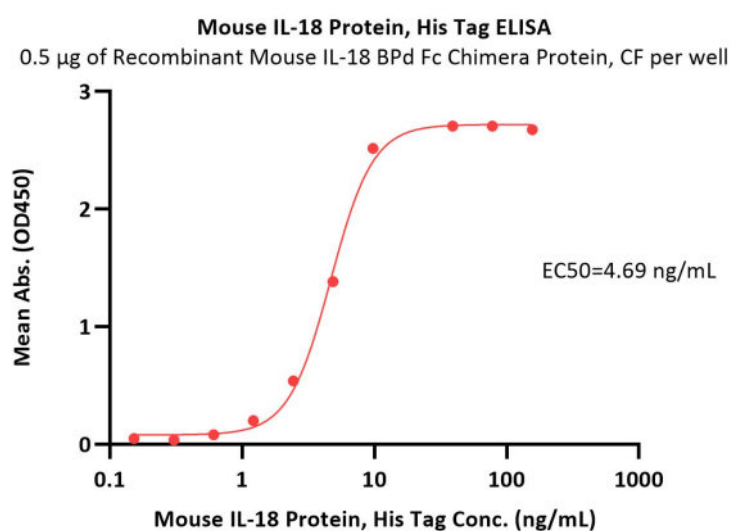


Mouse IL-18 Protein, His Tag

Catalog # IL8-M51H3



BIOSYSTEMS
Acro



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 α and IL-18RB β shows structural similarity to IL-1.

Clinical and Translational Updates

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