



## Synonym

IL4,BCGF1,BSF1

## Source

Mouse IL-4, His Tag(IL4-M52H5) is expressed from human 293 cells (HEK293). It contains AA His 21 - Ser 140 (Accession # [P07750-1](#)).

Predicted N-terminus: His 21

## Molecular Characterization

IL-4(His 21 - Ser 140)  
P07750-1 Poly-his

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

The protein has a calculated MW of 15.4 kDa. The protein migrates as 17-20 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) 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 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

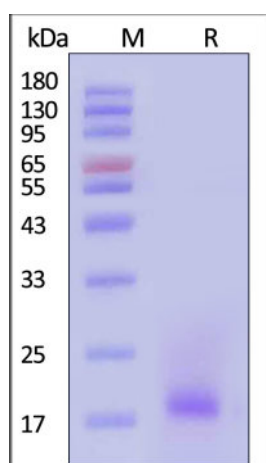
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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-4, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

## Bioactivity-ELISA

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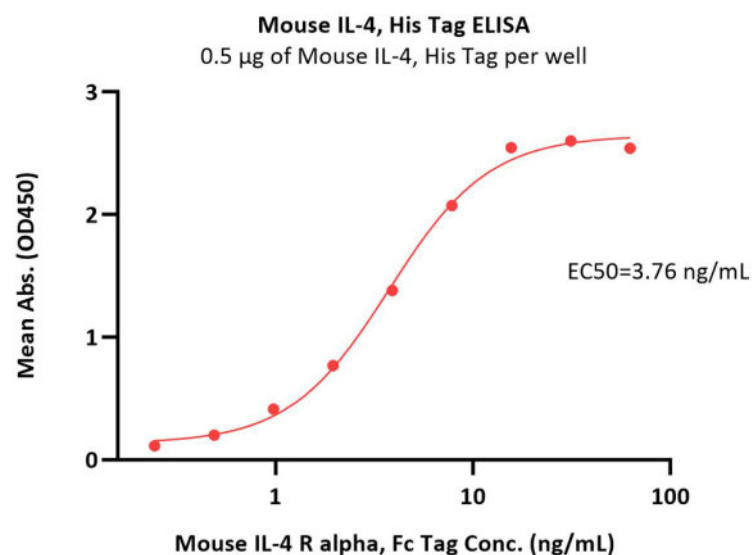


# Mouse IL-4 Protein, His Tag

Catalog # IL4-M52H5



BIOSYSTEMS  
**Acro**



Immobilized Mouse IL-4, His Tag (Cat. No. IL4-M52H5) at 5 µg/mL (100 µL/well) can bind Mouse IL-4 R alpha, Fc Tag (Cat. No. ILR-M5252) with a linear range of 0.2-16 ng/mL (QC tested).

## Background

Interleukin-4, is a cytokine that induces differentiation of naive helper T cells (Th0 cells to Th2 cells). In the presence of IL-4 and IL-13, cytokines that are produced in a Th-2 type response, particularly during allergy and parasitic infections, macrophages become differentially activated, And this cytokine is a ligand for interleukin 4 receptor. The interleukin 4 receptor also binds to IL13, which may contribute to many overlapping functions of this cytokine and IL13. STAT6, a signal transducer and activator of transcription, has been shown to play a central role in mediating the immune regulatory signal of this cytokine. Recently, researcher found that the cytokine IL-4 plays a key role in development of innate CD8<sup>+</sup> T cells in the thymus of several gene-deficient mouse strains, including Itk, KLF2, CBP and Id3, without previous exposure to antigen.

## Clinical and Translational Updates

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