

# Recombinant Mouse IL-2 Protein

Catalog No.: RP02771LQ **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Mouse	16183	P04351

### Tags

No tag

### Synonyms

IL-2;IL2

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

### Endotoxin

&lt;1EU/μg

### Formulation

Supplied as a 0.22 μm filtered solution in PBS, pH 7.4.

### Reconstitution

## Background

Interleukin-2, also known as a T-cell growth factor, TCGF, Aldesleukin, and IL2, is a secreted protein that belongs to the IL-2 family. Interleukin-2 / IL-2 was the first interleukin molecule to be discovered. Interleukin-2 / IL-2 molecule was first purified to homogeneity by immunoaffinity chromatography by Kendall Smith and his team at Dartmouth Medical School. Interleukin-2 / IL-2 was also the first cytokine shown to mediate its effects via a specific IL-2 receptor, and it was also the first interleukin to be cloned and expressed from a complementary DNA (cDNA) library. Interleukin-2 / IL-2 was designated number 2 because Smith's data at the time indicated that IL-1, produced by macrophages, facilitates IL-2 production by T lymphocytes (T cells). Interleukin-2 / IL-2 is produced by T-cells in response to antigenic or mitogenic stimulation, this protein is required for T-cell proliferation and other activities crucial to regulation of the immune response. Interleukin-2 / IL-2 is normally produced by the body during an immune response. When environmental substances (molecules or microbes) gain access to the body, these substances (termed antigens) are recognized as foreign by antigen receptors that are expressed on the surface of lymphocytes. Antigen binding to the T cell receptor (TCR) stimulates the secretion of Interleukin-2 / IL-2 and the expression of IL-2 receptors IL-2R. The IL-2 / IL-2R interaction then stimulates the growth, differentiation, and survival of antigen-selected cytotoxic T cells via the activation of the expression of specific genes. Interleukin-2 / IL-2 can stimulate B-cells, monocytes, lymphokine-activated killer cells, natural killer cells, and glioma cells.

## Basic Information

### Description

Recombinant Mouse IL-2 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala21-Gln169) of mouse IL-2 (Accession #NP\_032392.1) fused with no additional amino acid.

### Bio-Activity

### Storage

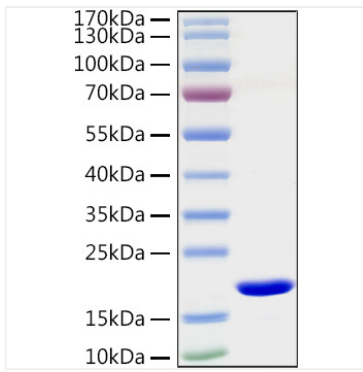
Store at ≤-70°C, stable for 12 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles. Avoid repeated freeze/thaw cycles.

## Contact

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## Validation Data

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Recombinant Mouse IL-2 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 22-25kDa.