

# Recombinant Mouse IL-6 Protein

Catalog No.: RP01321 **Recombinant** **2 Publications**

## Sequence Information

Species	Gene ID	Swiss Prot
Mouse	16193	P08505

### Tags

C-His

### Synonyms

IL6; Interleukin-6; BSF2; HSF; IFNB2; IL6

## Product Information

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

### Endotoxin

&lt; 0.1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

 | 400-999-6126 | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn) | [www.abclonal.com.cn](http://www.abclonal.com.cn)

## Background

Interleukin-6 is a multifunctional α-helical cytokine that regulates cell growth and differentiation of various tissues, which is known particularly for its role in the immune response and acute phase reactions. It is secreted by T cells, macrophages, monocytes, fibroblasts, endothelial cells, et al. to stimulate immune response to trauma, especially burns or other tissue damage leading to inflammation. Interleukin 6 has been shown to interact with interleukin-6 receptor and glycoprotein. IL-6 is relevant to many disease processes such as diabetes, atherosclerosis, depression, Alzheimer's Disease, systemic lupus erythematosus, prostate cancer and rheumatoid arthritis.

## Basic Information

### Description

Recombinant Mouse IL-6 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Phe25-Thr211) of Mouse IL6 (Accession #NP\_112445.1) fused with an 6×His tag at the C-terminus.

### Bio-Activity

Measured in a cell proliferation assay using NFS-60 mouse myelogenous leukemia lymphoblast cells. The ED<sub>50</sub> for this effect is 0.07-0.28 ng/mL, corresponding to a specific activity of 3.57×10<sup>6</sup> ~ 1.43×10<sup>7</sup> units/mg.

### Storage

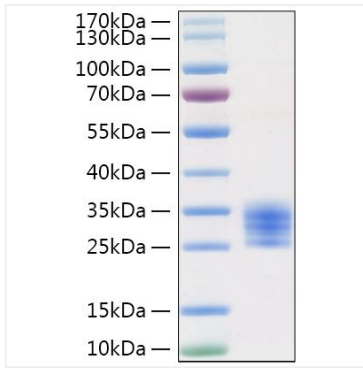
Store the lyophilized protein at -20°C to -80°C for long term.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

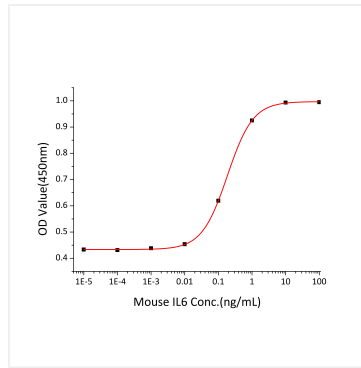
Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Mouse IL-6 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 25-35kDa.



Recombinant Mouse IL-6 stimulates cell proliferation of the NFS-60 mouse myelogenous leukemia lymphoblast cells. The ED<sub>50</sub> for this effect is 0.07-0.28 ng/mL, corresponding to a specific activity of  $3.57 \times 10^6 \sim 1.43 \times 10^7$  units/mg.