

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.

Calculated MW	Observed MW
22.57 kDa	25-35 kDa

Endotoxin

< 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.

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 ED₅₀ for this effect is 0.07-0.28 ng/mL, corresponding to a specific activity of 3.57×10⁶ ~ 1.43×10⁷ units/mg.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

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.

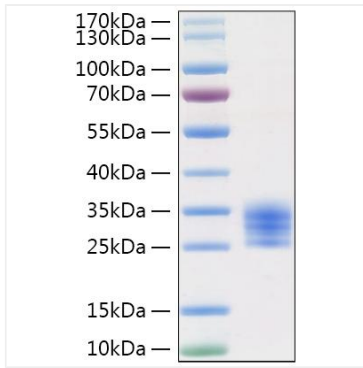
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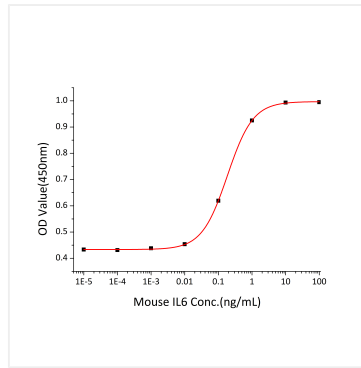
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Validation Data



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 ED₅₀ 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.