# **Recombinant Human IL-6 Protein**

Catalog No.: RP01688 Recombinant



Species	Gene ID	Swiss Prot
Human	3569	P05231

Tags

NO-tag

### Synonyms

CDF; HGF; HSF; BSF2; IL-6; BSF-2; IFNB2; IFN-beta-2

## Product Information

Source	Pur
HEK293 cells	≥ 95
	dete
	DVC

Purification ≥ 95 % as determined by SDS-PAGE.

### Calculated MW Observed MW

### Endotoxin

< 0.1 EU/µg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22  $\mu m$  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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

### Contact

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### Background

Interleukin-6 is a multifunctional  $\alpha$ -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

Active Recombinant Human IL6 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Val30-Met212) of human IL6 (Accession #NP\_000591.1) fused with no additional amino acid.

### **Bio-Activity**

Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The  $ED_{50}$  for this effect is 0.12-0.47 ng/mL.

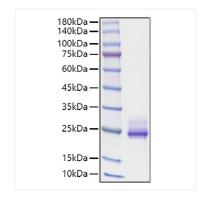
### Storage

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

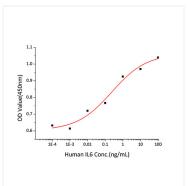
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.





Recombinant Human IL-6 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Recombinant Human IL6 stimulates cell proliferation of the TF-1 human erythroleukemic cells. The  $ED_{50}$  for this effect is 0.12-0.47 ng/mL.