

Recombinant Human IL-6 Protein

Catalog No.: RP01688 **Recombinant**

Sequence Information

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	Purification
HEK293 cells	> 95% by SDS-PAGE.

Endotoxin
<0.1EU/μg

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 freeze-thaw cycles.

Contact

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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

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.

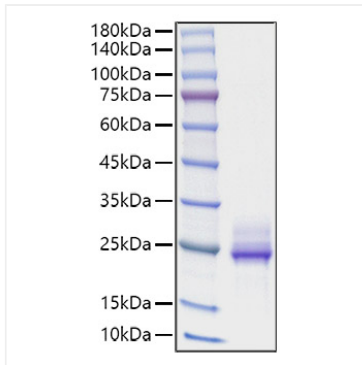
Bio-Activity

Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED₅₀ for this effect is 0.12-0.47 ng/mL.

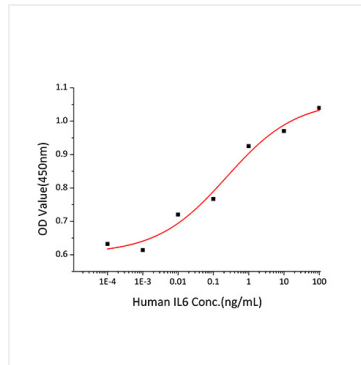
Storage

Store the lyophilized protein at -20°C to -80°C for 12 months. 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



Recombinant Human IL6 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 20 kDa.



Recombinant Human IL6 stimulates cell proliferation of the TF-1 human erythroleukemic cells. The ED₅₀ for this effect is 0.12-0.47 ng/mL.