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Recombinant Rat IL-6 Protein

Catalog No.: RP01741 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Rat	24498	P20607

Tags
C-His

Synonyms
ILg6; Ifnb2□IL-6□IL6

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
21.73 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 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

400-999-6126

cn.market@abclonal.com.cn

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 Rat IL-6 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Phe25-Thr211) of rat IL-6 (Accession #NP_036721.1) fused with a 6×His tag at the C-terminus.

Bio-Activity
1.Measured in a cell proliferation assay using NFS-60 mouse myelogenous leukemia lymphoblast cells. The ED_{50} for this effect is 30-123 pg/mL.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃
Avoid repeated freeze/thaw cycles.

Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

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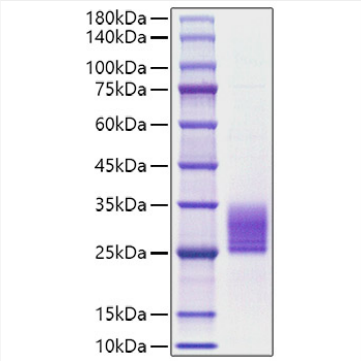
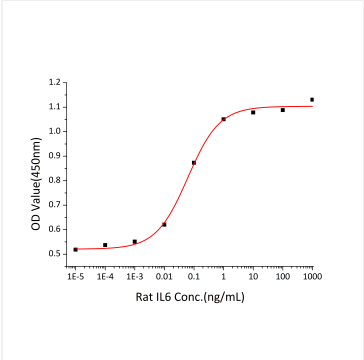
Validation Data



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



Recombinant Rat IL-6 stimulates cell proliferation of the NFS-60 mouse myelogenous leukemia lymphoblast cells. The ED_{50} for this effect is 30-123 pg/mL.