Recombinant Rat IL-6 Protein

Catalog No.: RP01741

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Sequence Information

Species
Rat

Gene ID
24498

Swiss Prot
P20607

Tags
C-His

Synonyms
ILg6; Ifnb2; IL-6; IL6

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
21.73 kDa

Observed MW
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.

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.

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℃

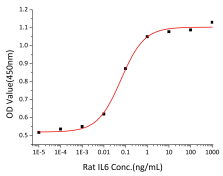
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

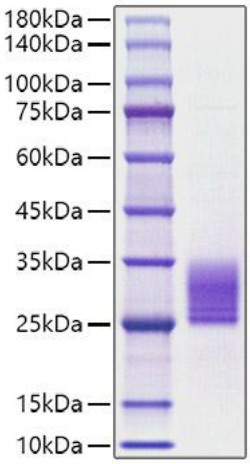
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Validation Data



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.



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