


## Rat IL-6 Protein

Cat #:PRP1201

Size:5 µg/20 µg/100 µg/1 mg

### Product Information

|   |   |            |   |
|---|---|------------|---|
|   | <b>Product Name:</b> Rat IL-6 Protein                           |            |   |
| <b>REF</b>  | <b>Catalog Number:</b> PRP1201                                  | <b>LOT</b> | <b>Lot Number:</b> Refer to product label |
|   | <b>Purity:</b> > 98 % as determined by SDS-PAGE                 |            |   |
|  | <b>Storage:</b> Store at -20°C                                  |            | <b>Preparation method:</b> E.coli         |
|   | <b>Shipping:</b> The product is shipped at ambient temperature. |            |   |

**Background:** Interleukin-6(IL-6) is encoded by the IL-6 gene and acts as both a pro-inflammatory and anti-inflammatory cytokine. It is secreted by T cells and macrophages to stimulate immune response. IL-6 plays an essential role in the final differentiation of B-cells into Ig-secreting cells involved in lymphocyte and monocyte differentiation. It also induces myeloma and plasmacytoma growth and induces nerve cells differentiation acts on B-cells, T-cells, hepatocytes, hematopoietic progenitor cells and cells of the CNS. The rat IL-6 is a single non-glycosylated polypeptide chain containing 187 amino acids and it signals through a cell-surface type I cytokine receptor complex consisting of the ligand-binding IL-6R $\alpha$  chain(CD126), and the signal-transducing component gp130(also called CD130).

**Sequence:** Amino acid sequence derived from Rat IL-6 (Phe25-Thr211) (P20607) was expressed.

**Protein length:** The recombinant Rat IL-6 consists of 187 amino acids and predicts a molecular mass of 21.8 kDa.

**Biological Activity:** Testing in Progress.

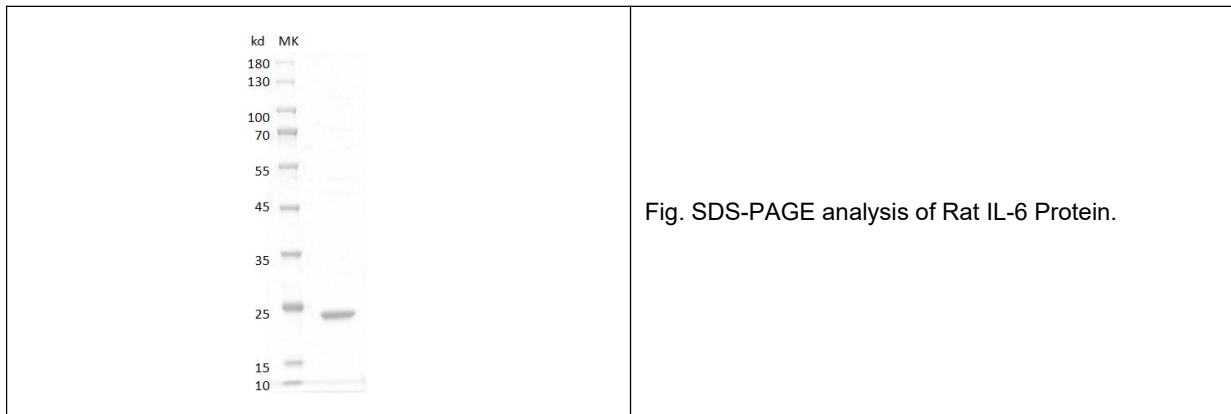
**Endotoxin:** <0.1 EU per µg of the protein by the LAL method.

**Formulation:** Lyophilized from 20 mM Tris-HCl, 250 mM NaCl, pH8.0.

**Storage Instructions:** Lyophilized protein product should be stored desiccated below -18°C. Upon reconstitution, the protein should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (5% HSA , 10%FBS or 0.1%BSA). Please prevent freeze-thaw cycles.

**Usage notes:** Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized recombinant p

rotein to a concentration of 0.1-1 mg/mL using the buffer we provided, and keep at room temperature for at least 20 min to fully dissolve. Please avoid vortex vigorously.



**Note:** The product listed herein is for research use only and is not intended for use in human or clinical diagnosis. Suggested applications of our products are not recommendations to use our products in violation of any patent or as a license. We cannot be responsible for patent infringements or other violations that may occur with the use of this product.