

**Recombinant Rat IL-6**  
**Catalog # PBG10243****Specification**

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**Recombinant Rat IL-6 - Product Information****Recombinant Rat IL-6 - Additional Information****Description**

IL-6 is a pleiotropic cytokine that plays an important role in host defense by regulating immune and inflammatory responses. Produced by T cells, monocytes, fibroblasts, endothelial cells and keratinocytes, IL-6 has diverse biological functions. It stimulates B-cell differentiation and antibody production, synergizes with IL-3 in megakaryocyte development and platelet production, induces expression of hepatic acute-phase proteins, and regulates bone metabolism. IL-6 signals through the IL-6 receptor system that consists of two chains, IL-6R  $\alpha$  and gp130. Murine IL-6 is inactive on human cells, while both human and murine are equally active on murine cells. Recombinant rat IL-6 is a 21.7 kDa protein containing 187 amino acid residues.

**Biological Activity**

The  $ED_{50}$  as determined by the dose-dependent stimulation of the proliferation of IL-6-dependent murine 7TD1 cells is  $< 0.01$  ng/ml, corresponding to a specific activity of  $> 1 \times 10^8$  units/mg.

**Authenticity**

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

**Endotoxin**

Endotoxin level is  $< 0.1$  ng/  $\mu$ g of protein ( $< 1$  EU/  $\mu$ g).

**Protein Content**

Verified by UV Spectroscopy and/or SDS-PAGE gel.

**Storage**

-20°C

**Precautions**

Recombinant Rat IL-6 is for research use only and not for use in diagnostic or therapeutic procedures.

**Recombinant Rat IL-6 - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)

- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## **Recombinant Rat IL-6 - Images**