

## Recombinant Rat Interleukin-6

Catalog No: #AP60231



Package Size: #AP60231-1 10ug #AP60231-2 100ug #AP60231-3 500ug

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## Description

Product Name	Recombinant Rat Interleukin-6
Host Species	Escherichia coli.
Purification	> 95 % by SDS-PAGE and HPLC analyses.
Uniprot	P20607
GeneID	24498
Calculated MW	Approximately 21.7 kDa, a single, non-glycosylated polypeptide chain containing 187 amino acids
Target Sequence	FPTSQVRRGD FTEDTTHNRP VYTTSQVGGL ITYVLREILE MRKELCNGNS DCMNSDDALS ENNLKLEPIQ RNDGCFQTGY NQEICLLKIC SGLLEFRFYLF EFKNNLQDN KKDKARVIQS NTETLVHIFK QEIKDSYKIV LPTPTSNALL MEKLESQKEW LRTKTIQLIL KALEEFLKVT MRSTRQT
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.- 12 months from date of receipt, -20 to -70 °C as supplied.- 1 month, 2 to 8 °C under sterile conditions after reconstitution.- 3 months, -20 to -70 °C under sterile conditions after reconstitution.

## 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). The rat IL-6 shares 40 % and 85 % aa sequence identity with human and mouse IL-6 and it is equally active on human and mouse cells.

Note: This product is for in vitro research use only