

Active Recombinant Rat Il6 Protein

Cat. No. Il6-176I **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Il6 Protein without tag was expressed in HEK 293.
Species	Rat
Source	HEK293
Description	Interleukin-6 (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, Interleukin-6 (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. Interleukin-6 (IL-6) signals through the IL-6 receptor system that consists of two chains, IL-6R alpha and gp130.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 3 pg/mL, measured by a cell proliferation assay using 7TD1 Cells.
Molecular Mass	21~26 kDa, observed by reducing SDS-PAGE.
AA Sequence	FPTSQVRRGDFTEDTTHNRPVYTTSQVGGLITYVLREILEMRKELCNGNSDCMNSD DALSENNLKLPEIQRNDGCFQTGYNQEICLLKICSGLLLEFRFYLEFVKNNLQDNKKDK ARVIQSNTETLVHIFKQEIKDSYKIVLPTPTSNALLMEKLESQKEWLRTKTIQLILKALE EFLKVTMRSTRQT

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Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% as analyzed by SDS-PAGE.
Storage	Lyophilized recombinant Rat Interleukin-6(IL-6) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, it should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH2O or PBS at 100 μg/mL.
GENE INFORMATION	
Gene Name	IL6 interleukin 6 [<i>Rattus norvegicus</i>]
Official Symbol	IL6
Synonyms	IL6; interleukin 6; interleukin-6; IL-6; Interleukin 6 (interferon, beta 2); ILg6; Ifnb2;
Gene ID	24498
mRNA Refseq	NM_012589
Protein Refseq	NP_036721
UniProt ID	P20607

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