GMP Recombinant Rhesus macaque IL-6

Cat. No. IL6-22R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Rhesus macaque
Source	E.coli
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, 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-6Rα and gp130.
Form	Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4.
Bio-activity	The ED50 determined by a cell proliferation assay usingIL-6-dependent murine 7TD1 cells is less than 0.1 ng/mL, corresponding to a specific activity of >1.0 × 107 IU/mg.
Molecular Mass	Approximately 21.1 kDa, a single non-glycosylated polypeptide chain containing 186 amino acids.
AA Sequence	MAPVLPGEDS KNVAAPHSQP LTSSERIDKH IRYILDGISA LRKETCNRSNMCESSKEALA ENNLNLPKMA EKDGCFQSGF NEDTCLVKII TGLLEFEVYLEYLQNRFESS EEQARAVQMS TKVLIQFLQK KAKNLDAITT

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	PEPTTNASLLTKLQAQNQWL QDMTTHLILR SFKEFLQSNL RALRQM
Endotoxin	Less than 1 EU/μg of IL-6 as determined by LAL method.
Purity	>97% by SDS-PAGE and HPLC analyses.
Usage	This material is offered by Creatvie Biomart for research, laboratory or further evaluation purposes. FOR RESEARCH USE ONLY. NOT INTENDED FOR ANY ANIMAL OR HUMAN THERAP EUTIC OR DIAGNOSTIC USE.
Storage Buffer	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at< -20°c.="" further="" dilutions="" should="" be="" made="" in="" appropriate="" buffered="">>

GENE INFORMATION

Gene Name	IL6 interleukin 6 (interferon, beta 2) [Macaca mulatta]
Official Symbol	IL6
Synonyms	interleukin-6; IL-6
Gene ID	705819

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mRNA Refseq	NM_001042733
Protein Refseq	NP_001036198
Chromosome Location	chromosome: 3
Pathway	African trypanosomiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem

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