

Recombinant Macaca mulatta Interleukin 6 (interferon, beta 2)

Cat. No. IL6-5433M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant RhesusMacaque IL6 is a single non-glycosylated polypeptide chain containing 186amino acids.
Species	Macaca mulatta
Source	E.coli
Description	IL6 is a pleiotropic cytokine that plays animportant role in host defense by regulating immune and inflammatoryresponses. Produced by T cells, monocytes, fibroblasts, endothelial cells andkeratinocytes, IL6 has diverse biological functions. It stimulates B-celldifferentiation and antibody production, synergizes with IL-3 inmegakaryocyte development and platelet production, induces expression ofhepatic acute-phase proteins, and regulates bone metabolism. IL6 signalsthrough the IL6 receptor system that consists of two chains, IL6R α and gp130.
Form	Lyophilized from a0.2 μ m filtered concentrated solution in PBS, pH 7.4.
MolecularWeight	21.1 kDa
Purity	> 97% by SDS-PAGEand HPLC analyses
Endotoxin Level	< 0.1 ng/g ofprotein
Biological Activity	The ED50as determined by the dose-dependent stimulation of the proliferation ofIL-6-dependent mouse 7TD1 cells is < 0.1 ng/ml, corresponding to aspecific activity of

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	>1×10 ⁷ units/mg.
Sequences	MAPVLPGEDSKNVAAPHSQP LTSSERIDKH IRYILDGISA LRKETCNRSN MCESSKEALA ENNLNLPKMA EKDGCQSGFNEDTCLVKII TGLLEFEVYL EYLQNRFESE EEQARAVQMS TKVLIQFLQK KAKNLDAITT PEPTTNASLLTKLQAQNQWL QDMTTHLILR SFKEFLQSNL RALRQM
Reconstitution	Centrifuge vial prior to opening to bring contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/ml. Further dilutions should be made in appropriate buffered solutions.
Storage	The lyophilized product is stable for several weeks at 2-4°C, but should be stored desiccated at -20°C. After reconstitution, the protein should be divided into working aliquots and frozen at -80°C. Avoid repeated freeze-thaw cycles.
Official Symbol	IL6
GENE INFORMATION	
Gene Name	IL6 interleukin 6 (interferon, beta 2) [<i>Macaca mulatta</i>]
Synonyms	IL6; interleukin 6 (interferon, beta 2); interleukin-6; IL-6
Gene ID	705819
mRNA Refseq	NM_001042733
Protein Refseq	NP_001036198
UniProt ID	P51494

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Chromosome Location	3
Pathway	African trypanosomiasis; Amoebiasis; Cytokine-cytokine receptor interaction; Cytosolic DNA-sensing pathway; Graft-versus-host disease; HTLV-I infection; Hematopoietic cell lineage; Herpes simplex infection; Influenza A; Intestinal immune network for IgA production; Jak-STAT signaling pathway; Legionellosis; Malaria; NOD-like receptorsignaling pathway
PDB rendering based on 1ALU.	

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