

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	<i>Macaca mulatta</i>
Source	E.coli
Description	IL6 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 andkeratinocytes, IL6 has diverse biological functions. It stimulates B-celldifferentiation and antibody production, synergizes with IL-3 in megakaryocyte development and platelet production, induces expression of hepatic 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 a 0.2 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 a specific activity of

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>1×10⁷ units/mg.

Sequences

MAPVLPGEDSKNVAAPHSQP LTSSERIDKH IRYILDGISA LRKETCNRSN
 MCESSKEALA ENNLNLPKMA EKDGCFQSGFNEDTCLVKII TGLLEFEVYL
 EYLQNRFESE EQARAVQMS 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 \(interferon, beta 2\) \[Macaca mulatta \]](#)

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**

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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 receptor signaling pathway

**PDB rendering based
on 1ALU.**

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