

Recombinant Human Interleukin 6 (interferon, beta 2)

Cat. No. IL6-363H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human IL6 was expressed in Yeast (Pichia Pastoris).
Species	Human
Source	P.pastoris
Description	IL-6 is a protein that in humans is encoded by the IL6 gene. IL-6 is an interleukin that acts as both a pro-inflammatory and anti-inflammatory cytokine. It is secreted by T cells and macrophages to stimulate immune response, e.g. during infection and after trauma, especially burns or other tissue damage leading to inflammation. In terms of host response to a foreign pathogen during infection, IL-6 has been shown, in mice, to be required for resistance against the bacterium.
Form	The recombinant human IL-6 is admitted in PBS and free of any other protein. Quantity and concentration is stated on the vial label. The IL-6 protein concentration is determined by ELISA and by bioassay.
Molecular Weight	23.9 kDa
Purity	>95% on SDS-PAGE electrophoresis.
Endotoxin Level	Determined with LAL-assay, below 0.01 EU/ug.
Biological Activity	Biological activity of IL-6 is $>5 \times 10^7$ IU/ml. Biological activity of IL-6 was quantified using B9 assay.

 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

Reconstitution	Centrifuge vial prior to opening. First add sterile distilled water to the vial to fully solubilize the protein to a concentration not less than 100 ug/ml. After complete solubilization of the protein, it can be further diluted to other aqueous solutions.
Storage	The material is stable at 37°C for weeks. Also at lower temperatures, IL-6 is a very robust and stable molecule. Repeated freezing and thawing does not affect its biological activity; it is not known whether it leads to dimerization.
Official Symbol	IL6
GENE INFORMATION	
Gene Name	IL6 interleukin 6 (interferon, beta 2) [Homo sapiens]
Synonyms	IL6; interleukin 6(interferon, beta 2); HGF; HSF; BSF2; IL-6; IFNB2; interleukin-6; CDF; BSF-2; IFN-beta-2; interferon beta-2; interleukin BSF-2; OTTHUMP00000158544; OTTHUMP00000198486; OTTHUMP00000198489; OTTHUMP00000198490; hybridoma growth factor; CTL differentiation factor; B cell stimulatory factor-2; B-cell stimulatory factor 2; B-cell differentiation factor
Gene ID	3569
mRNA Refseq	NM_000600
Protein Refseq	NP_000591
MIM	147620
UniProt ID	P05231

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Chromosome Location	7p21-p15
Pathway	ATF-2 transcriptionfactor network; Adipogenesis; African trypanosomiasis; Amoebiasis; AndrogenReceptor Signaling Pathway; Cytokine Signaling in Immune system; Cytokinesand Inflammatory Response; Cytosolic DNA-sensing pathway; Graft-versus-hostdisease; HTLV-I infection; Hematopoietic cell lineage; Herpes simplexinfection; IL-6 Signaling Pathway; Immune System; Influenza A
Function	cytokine activity;growth factor activity; interleukin-6 receptor binding; contributes_tointerleukin-6 receptor binding
PDB rendering basedon 1ALU.	