

## Recombinant Human Interleukin 6 (interferon, beta 2)

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant human IL6 was expressed in Yeast (Pichia Pastoris).
<b>Species</b>	Human
<b>Source</b>	P.pastoris
<b>Description</b>	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.
<b>Form</b>	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.
<b>Molecular Weight</b>	23.9 kDa
<b>Purity</b>	>95% on SDS-PAGE electrophoresis.
<b>Endotoxin Level</b>	Determined with LAL-assay, below 0.01 EU/ug.
<b>Biological Activity</b>	Biological activity of IL-6 is $>5 \times 10^7$ IU/ml. Biological activity of IL-6 was quantified using B9 assay.

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**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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<b>Chromosome Location</b>	7p21-p15
<b>Pathway</b>	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
<b>Function</b>	cytokine activity;growth factor activity; interleukin-6 receptor binding; contributes_tointerleukin-6 receptor binding
<b>PDB rendering basedon 1ALU.</b>	

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