

Recombinant Human IL-6

Cat. No. IL6-78H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human IL-6 was produced in yeast and therefore does not have endotoxin, is naturally folded, and post-translationally modified.
Species	Human
Source	Yeast
Description	Interleukin-6 (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 to trauma, especially burns or other tissue damage leading to inflammation. IL-6 is also produced from muscle, and is elevated in response to muscle contraction. It is significantly elevated with exercise, and precedes the appearance of other cytokines in the circulation. Osteoblasts secrete IL-6 to stimulate osteoclast formation. Smooth muscle cells in the tunica media of many blood vessels also produce IL-6 as a pro-inflammatory cytokine. The role of IL-6 as an anti-inflammatory cytokine is mediated through its inhibitory effects on TNF-alpha and IL-1, and activation of IL-1ra and IL-10.
Form	Lyophilized
Molecular Mass	20.8 kDa
AA Sequence	VPPGEDSKDV AAPHRQPLTS SERIDKQIRY ILDGISALRK ETCNKSNMCE SSKEALAENN LNLPKMAEKD GCFQSGFNEE TCLVKIITGL LEFEVYLEYL QNRFESSEEQ ARAVQMSTKV LIQFLQKKAK NLDAITTPDP TTNASLLTKL

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QAQNQWLQDM TTHLILRSFK EFLQSSLRAL RQM (183)

Applications

The human IL-6 protein can be used in cell culture, as an IL-6 ELISA Standard, and as a Western Blot Control.

Storage

-20 C

GENE INFORMATION

Gene Name

IL6 interleukin 6 (interferon, beta 2) [Homo sapiens]

Official Symbol

IL6

Synonyms

IL6; interleukin 6 (interferon, beta 2); IFNB2; interleukin-6; BSF2; HGF; HSF; IL 6; CDF; BSF-2; IFN-beta-2; interferon beta-2; interleukin BSF-2; hybridoma growth factor; CTL differentiation factor; B-cell stimulatory factor 2; B-cell differentiation factor; IL-6;

Gene ID

3569

mRNA Refseq

NM_000600

Protein Refseq

NP_000591

MIM

147620

UniProt ID

P05231

Chromosome Location


7p21-p15

Pathway

ATF-2 transcription factor network, organism-specific biosystem; Adipogenesis,

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organism-specific biosystem; African trypanosomiasis, organism-specific biosystem;
African trypanosomiasis, conserved biosystem; Amoebiasis, organism-specific
biosystem; Amoebiasis, conserved biosystem; Androgen Receptor Signaling
Pathway, organism-specific biosystem;

Function

cytokine activity; cytokine activity; growth factor activity; interleukin-6 receptor binding;
contributes_to interleukin-6 receptor binding; interleukin-6 receptor binding;

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