

Active Recombinant Human IL6

Cat. No. IL6-23H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL6 is a 20 to 28 kDa globular protein consisting of 212 amino acid residues.
Species	Human
Source	CHO
Description	This gene encodes a cytokine that functions in inflammation and the maturation of B cells. In addition, the encoded protein has been shown to be an endogenous pyrogen capable of inducing fever in people with autoimmune diseases or infections. The protein is primarily produced at sites of acute and chronic inflammation, where it is secreted into the serum and induces a transcriptional inflammatory response through interleukin 6 receptor, alpha. The functioning of this gene is implicated in a wide variety of inflammation-associated disease states, including susceptibility to diabetes mellitus and systemic juvenile rheumatoid arthritis.
Form	0.22 um filtered solution in 20 mM TRIS*HCl buffer pH 7.2
Bio-activity	ED50 < 1 ng/ml, The activity was determined by the dose dependent stimulation of the proliferation of human TF-1 cells (human erythroleukemic indicator cell line)
Molecular Mass	21-23 kDA, glycosylated
AA Sequence	APVPPGEDSKDVAAPHRQPLTSSERIDKQIRYILDGISALRKETCNKSNMCESSKEAL AENNLNLPKMAEKDGCF QSGFNEETCLVKIITGLLEFEVYLEYLQNRFESSEEQARA

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VQMSTKVLIQFLQKKAKNLDAITTPDPTTNASLLT KLQAQNQWLQDMTTHLILRSFK
EFLQSSLRALRQM

Endotoxin < 1.0 EU per 1 µg of the protein by the LAL method.

Purity >95%, Determined by SDS-PAGE under reducing conditions and visualized by silver stain.

GENE INFORMATION

Gene Name IL6 interleukin 6 [Homo sapiens (human)]

Official Symbol IL6

Synonyms HGF; BSF2; HSF; IFNB2; IL-6; CDF; BSF-2; B-cell stimulatory factor 2; CTL differentiation factor; Hybridoma growth factor; Interferon beta-2; Interleukin-6 precursor; interleukin 6 (interferon, beta 2); IL6

Gene ID 3569

mRNA Refseq NM_000600

Protein Refseq NP_000591

MIM 147620

UniProt ID P05231

Chromosome Location 7p21

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Pathway	ARMS-mediated activation; ATF-2 transcription factor network; Chagas disease (American trypanosomiasis)
Function	Cytokine activity, Interleukin-6 receptor binding, Protein binding; interleukin-6 receptor binding

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