

Recombinant Human IL6

Cat. No. IL6-1112H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant human IL-6 is a 20.9 kDa protein containing 184 amino acid residues. Manufactured using all non-animal reagents.

Species

Human

Source

E.coli

Description

IL-6 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 and keratinocytes, IL-6 has diverse biological functions. It stimulates B-cell differentiation and antibody production, synergizes with IL-3 in megakaryocyte development and platelet production, induces expression of hepatic acute-phase proteins, and regulates bone metabolism. IL-6 signals through the IL-6 receptor system that consists of two chains, IL-6R α and gp130. Murine IL-6 is inactive on human cells, while both human and murine are equally active on murine cells.

Bio-activity

The ED50 was determined by the dose-dependent stimulation of the proliferation of the IL-6 dependent murine 7TD1 cells is ≤ 0.1 ng/ml, corresponding to a specific activity of $\geq 1 \times 10^7$ units/mg.

AA Sequence

PVPPGEDSKD VAAPHRQPLT SSERIDKQIR YILDGISALR KETCNKSNMC
 ESSKEALAEN NLNLPKMAEK DGCFQSGFNE ETCLVKIITG LLEFEVYLEY
 LQNRFESSEE QARAVQMSTK VLIQFLQKKA KNLDAITTPD PTTNASLLTK
 LQAQNQWLQD MTTHLILRSF KEFLQSSLRA LRQM

 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

Purity Greater than 98% by SDS-PAGE gel and HPLC analyses.

Storage Store at -20°C. Avoid repeated freeze-thaw cycles.

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, organism-specific biosystem; African trypanosomiasis, organism-specific biosystem; African trypanosomiasis, conserved biosystem; Amoebiasis, organism-specific

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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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