

Active Recombinant Human IL6, His-tagged

Cat. No. IL6-28H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL6 was produced in the endosperm tissue of barley grain (<i>Hordeum vulgare</i>). Recombinant human IL-6 is a 20.9 kDa protein containing 185 amino acid residues.
Species	Human
Source	Barley Grain
Description	IL-6 is a multifunctional cytokine that has an important role in host defense by regulating immune and inflammatory responses. It is expressed by a variety of normal and transformed cells including T cells, B cells, monocytes/macrophages, fibroblasts and various tumor cells. 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. Human IL-6 is active on murine cells but murine IL-6 is inactive on human cells.
Form	Sterile filtered through a 0.2 µm filter. Lyophilized from PBS, pH 7.2
Bio-activity	Recombinant human IL-6 was determined by its dose dependent effect on proliferation of 7TD-1 cells. The ED50 value for this effect is typically below 0.1 ng/ml corresponding to specific activity of >10 x 10 ⁶ U/mg. Optimal concentration should be determined for specific applications and cell lines.
Molecular Mass	Recombinant human IL-6 contains 185 amino acids and a 16 a.a. Histidine-based tag

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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for a total length of 201 a.a. and has a predicted molecular mass of 23.1 kDa. As a result of glycosylation, the recombinant protein migrates with an apparent molecular mass of 27 kDa in SDS-PAGE.

Endotoxin Endotoxin level is less than 0.012ng per µg of product (<>)

Purity Greater than 95% by SDS-PAGE gel analysis.

Storage The lyophilized protein, though stable at room temperature for few weeks, is best stored at -20°C. Reconstituted protein should be used immediately or stored in working aliquots at -20°C. Avoid repeated freeze-thaw cycles.

Reconstitution Always centrifuge the vial before opening. It is recommended to reconstitute the lyophilized protein in sterile water to a concentration of no less than 100 µg/ml. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

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](#)

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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 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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