

Active Recombinant Human IL6,His-tagged

Cat. No. IL6-8865H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL6 was produced in the endosperm tissue of barley grain (<i>Hordeum vulgare</i>).
Species	Human
Source	Hordeum Vulgare
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.
Predicted N Terminal	His
Form	Sterile filtered through a 0.2 µm filter. Lyophilized from PBS, pH 7.2
Bio-activity	Bioactivity is assayed by measuring the dose dependent effect of human IL-6 on proliferation of TF-1 cells. The ED50 for this batch of recombinant human IL-6 is 0.56 ng/ml, corresponding to 1.8 x 10E6 U/mg specific activity.
Molecular Mass	Recombinant human IL-6 contains 185 amino acids and a 16 a.a. Histidine-based tag for a total length of 201 a.a. and has a predicted molecular mass of 23.1 kDa. As a

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result of glycosylation, the recombinant protein migrates with an apparent molecular mass of 27 kDa in SDS-PAGE.

Endotoxin Endotoxin level is less than 0.05EU/μg as measured by turbidimetric kinetic assay.

Purity >95% by SDS-PAGE gel analysis.

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

Reconstitution 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](#)

Protein Refseq [NP_000591](#)

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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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