

Active Recombinant Human IL6, His-tagged

Cat. No. IL6-105H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human Interleukin-6/IL-6 is produced by E. coli transformed with a plasmid contains sequence (Pro29-Met212) of Human IL-6 fused with a polyhistidine tag at the C-terminus.
Species	Human
Source	E.coli
ProteinLength	29-212 a.a.
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	Lyophilized from a 0.2 µM filtered solution of 20mM HAc-NaAc, 150mM NaCl, pH 5.0
Bio-activity	Recombinant IL-6 is fully biologically active when compared to standards. ED50 is less than 0.1 ng/ml as determined by the dose-dependent stimulation of human TF-1 cells. Specific Activity of 5.0 x 10 ⁷ IU/mg.

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AA Sequence	PVPPGEDSKDVAAPHRQPLTSSERIDKQIRYILDGISALRKETCNKSNMCESSKEALA ENNLNLP KMAEKDGCQSGFNEETCLVKIITGLLEFEVYLEYLQNRFESSEEQARAV QMSTKVLIQFLQKKA KNLDAITTPDPTTNASLLTKLQAQNQWLQDMTTHLILRSFKEF LQSSLRALRQM
Endotoxin	Less than 0.1 ng/μg (1 IEU/μg).
Purity	Greater than 98% as determined by RP-HPLC and reducing SDS-PAGE.
Storage	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μg/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Shipping	The product is shipped at ambient temperature.

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;

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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 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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