

Active Recombinant Human IL6 Protein

Cat. No. IL6-041H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant human IL6 (rhIL6) Val 30 - Met 212 (Accession # NP_000591) was produced in Human HEK293 cells.

Species Human

Source HEK293

ProteinLength 30-212 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. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015]

Bio-activity The ED50 is determined by proliferation assay using mouse B9 hybridoma cells according to Gaines-Das and Poole.¹ The ED50 is =0.02 ng/mL corresponding to a specific activity of =5×10⁷ IU/mg.

Molecular Mass rhIL6 has Gly-Pro at N-terminal and has a calculated MW of 20.3 kDa. DTT-reduced protein migrates as 24-25 kDa polypeptide in SDS-PAGE.

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Endotoxin	Less than 1.0 EU per 1 g of the human IL6 by the LAL method.
Purity	>98% as determined by SDS-PAGE. All lots are greater than 98% pure.
Notes	Research Use Only. Not for use in diagnostic or therapeutic procedures.
Storage	Store at -20 centigrade in lyophilized state after receipt. For long term storage, upon reconstitution rhIL6 should be aliquot and store at -20 centigrade or -8 centigrade centigrade. Avoid repeated freeze-thaw cycles.
Storage Buffer	Bulk protein in a 0.22 µ filtered solution of PBS, pH 7.4 and delivered as liquid formulation or lyophilized powder. Normally 5-8% trehalose and mannitol are added as protectants before lyophilization.

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
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UniProt ID	P05231
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