

## Recombinant Human IL6 protein

Cat. No. IL6-505H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human IL6 protein (Val30-Met212) carries no tag and was expressed in human 293 cells (HEK293).
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	183
<b>Description</b>	<p>Interleukin 6 (IL-6) is also known as HGF, BSF2, HSF, IFNB2 and IL-6, originally identified as a B cell differentiation factor, is a multifunctional cytokine that regulates immune responses, hematopoiesis, acute phase responses, and inflammatory reactions. It is secreted by T cells, macrophages, monocytes, fibroblasts, endothelial cells, et al. to stimulate immune response to trauma, especially burns or other tissue damage leading to inflammation. Interleukin 6 has been shown to interact with interleukin-6 receptor and glycoprotein. IL-6 is relevant to many disease processes such as diabetes, atherosclerosis, depression, Alzheimer's Disease, systemic lupus erythematosus, prostate cancer and rheumatoid arthritis. Advanced/metastatic cancer patients have higher levels of IL-6 in their blood. Hence there is an interest in developing anti-IL-6 agents as therapy against many of these diseases.</p>
<b>Form</b>	Lyophilized from 0.22 um filtered solution in PBS, pH7.4, 10% trehalose.
<b>Molecular Mass</b>	The protein has a calculated MW of 20.8 kDa. The protein migrates as 25-32 kDa under reducing (R) condition (SDS-PAGE) due to different glycosylation.

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<b>Endotoxin</b>	Less than 1.0 EU per ug by the LAL method.
<b>Purity</b>	>98% as determined by SDS-PAGE.
<b>Storage</b>	<p>For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <p>-20 centigrade to -70 centigrade for 12 months in lyophilized state;</p> <p>-70 centigrade for 3 months under sterile conditions after reconstitution.</p>
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

## GENE INFORMATION

<b>Gene Name</b>	IL6
<b>Official Symbol</b>	IL6
<b>Synonyms</b>	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
<b>Gene ID</b>	3569
<b>mRNA Refseq</b>	NM_000600
<b>Protein Refseq</b>	NP_000591

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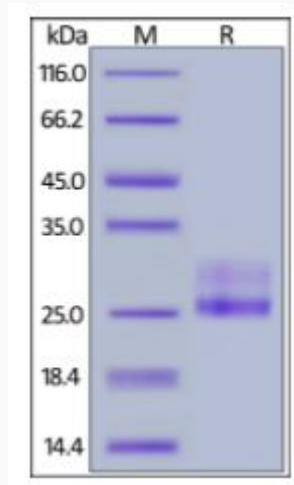
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**MIM** 147620

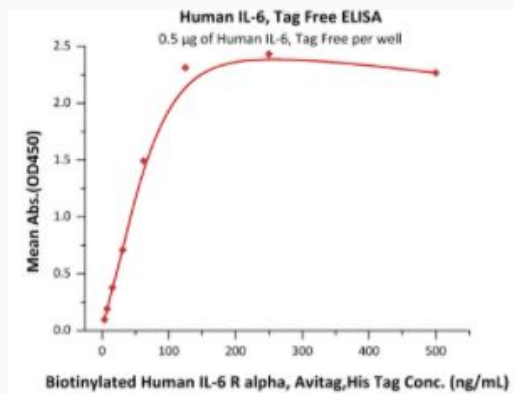
**UniProt ID** P05231

**SDS-PAGE of IL6-505H**



Human IL-6, Tag Free on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 98%.

**Bioactivity-ELISA of IL6-505H**



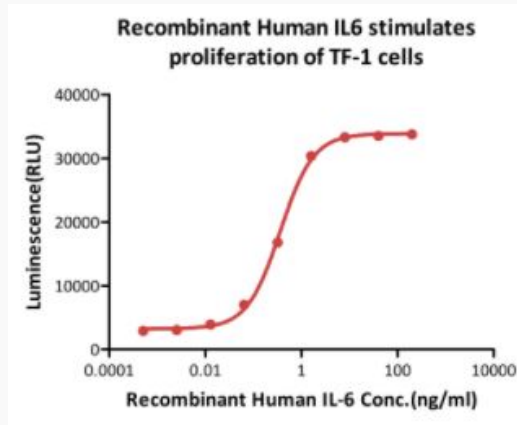
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Immobilized Human IL-6, Tag Free at 5 µg/mL (100 µL/well) can bind Biotinylated Human IL-6 R alpha, Avitag,His Tag with a linear range of 4-125 ng/mL (QC tested).


**Bioactivity-Cell  
based assay of IL6-  
505H**



Human IL-6, Tag Free stimulates proliferation of TF-1 human erythroleukemic cell line. The EC50 for this effect is 0.2856-0.3636 ng/mL (Routinely tested).

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