

Active Recombinant Human IL6 Protein

Cat. No. IL6-236I **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL6 Protein without tag was expressed in CHO.
Species	Human
Source	CHO
Description	Interleukin-6 (IL-6), also known as BSF-2, CDF and IFNB2, is a pleiotropic cytokine that acts in both pro-inflammatory and anti-inflammatory responses. It is produced mainly by T cells, macrophages, monocytes, endothelial cells and muscle cells. IL-6 binds to IL-6 receptor (IL-6R) to trigger the association of IL-6R with gp130, inducing signal transduction through JAKs and STATs. The biological functions of IL-6 are diverse. It stimulates B cell differentiation and antibody production, myeloma and plasmacytoma growth, as well as nerve cell differentiation. It also acts as a myokine, produced by muscle cells in response to muscle contraction, to be released to the blood stream to help break down fats and improve insulin resistance.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 0.06 ng/mL, measured in a cell proliferation assay using 7TD1 cells.
Molecular Mass	21-23 kDa, observed by reducing SDS-PAGE.
AA Sequence	PVPPGEDSKDVAAPHRQPLTSSERIDKQIRYILDGISALRKETCNKSNMCESSKEALA ENNLNLPKMAEKDGCFSQSGFNEETCLVKIITGLLEFEVYLEYLQNRFSSEEQARAV QMSTKVLIQFLQKKAKNLDAITTPDPTTNASLLTKLQAQNPWLQDMTTHLILRSFKEF

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	LQSSLRALRQM
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% as analyzed by SDS-PAGE.
Storage	Lyophilized recombinant Human Interleukin-6 remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, Human Interleukin-6 should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH2O or PBS at 100 μg/mL.

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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