

## **Growth Factor Data Sheet**

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Interleukin-6 (IL6) is a pleiotropic cytokine that plays an important role in host defense by regulating immune and inflammatory responses. Produced by T-cells, monocytes, fibroblasts, endothelial cells and keratinocytes, IL6 has diverse biological functions. It stimulates B-cell differentiation and antibody production, synergizes with IL3 in megakaryocyte development and platelet production, induces expression of hepatic acute-phase proteins and regulates bone metabolism. IL6 signals through the IL6 receptor system that consists of two chains: IL6R $\alpha$  and gp130.

Catalog Number Product Name	1210-06 ILG, Rhesus macaque Recombinant Rhesus macaque Interleukin-6 ILG Interferon, Beta-2 (IFNB2) B-cell Stimulatory factor 2 (BSF2) Hybridoma Growth Factor (HGF)
Source	Escherichia coli
MW	~21.1 kDa (186 amino acids)
Sequence	MAPVLPGEDS KNVAAPHSQP LTSSERIDKH IRYILDGISA LRKETCNRSN MCESSKEALA ENNLNLPKMA EKDGCFQSGF NEDTCLVKII TGLLEFEVYL EYLQNRFESS EEQARAVQMS TKVLIQFLQK KAKNLDAITT PEPTTNASLL TKLQAQNQWL QDMTTHLILR SFKEFLQSNL RALRQM
Purity	>97% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The ED $_{50}$ as determined by a cell proliferation assay using IL-6-dependent murine 7TD1 cells is less than 0.1 ng/ml, corresponding to a specific activity of >1.0 × $10^7$ IU/mg.
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
Reconstitution	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.

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