

# 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.

<b>Catalog Number</b>	<b>1510-06</b>
<b>Product Name</b>	<b>IL6, Rat</b> Recombinant Rat Interleukin-6 IL6 Interferon, Beta-2 (IFNB2) B-cell Stimulatory factor 2 (BSF2) Hybridoma Growth Factor (HGF)
<b>Source</b>	<i>Escherichia coli</i>
<b>MW</b>	~21.7 kDa (187 amino acids)
<b>Sequence</b>	FPTSQVRRGD FTEDTTHNRP VYTTSQVGGI ITYVLREILE MRKELCNGNS DCMNSDDALS ENNLKLEIQ RNDGCFQTY NQEICLLKIC SGLLEFRFYI EFKNNLQDN KKDKARVIQS NTETLVHIFK QEIKDSYKIV LPTPTSNALL MEKLESQKEW LRTKTIQLIL KALEEFLKVT MRSTRQT
<b>Accession Number</b>	<a href="#">P20607</a>
<b>Purity</b>	>95% by SDS-PAGE and HPLC analyses
<b>Biological Activity</b>	Fully biologically active when compared to standard. The ED <sub>50</sub> as determined by a cell proliferation assay using IL-6-dependent murine 7TD1 cells is less than 0.01 ng/ml, corresponding to a specific activity of > 1.0 × 10 <sup>8</sup> IU/mg.
<b>Formulation</b>	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
<b>Storage/Handling</b>	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.
<b>Reconstitution</b>	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in 10mM HCl to a concentration of 0.1 mg/mL. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.