

## IL6

### Recombinant Rhesus Macaque Interleukin-6

<b>Catalog No.</b>	CRI271A CRI271B CRI271C	<b>Quantity:</b>	2 µg 10 µg 1.0 mg
<b>Alternate Names:</b>	Interleukin 6, interferon, beta 2		
<b>Description:</b>	<p>Recombinant Rhesus Macaque IL-6 is a single non-glycosylated polypeptide chain containing 186 amino acids.</p> <p>Background: IL-6 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, IL-6 has diverse biological functions. It stimulates B-cell differentiation and antibody production, synergizes with IL-3 in megakaryocyte development and platelet production, induces expression of hepatic acute-phase proteins, and regulates bone metabolism. IL-6 signals through the IL-6 receptor system that consists of two chains, IL-6R<math>\alpha</math> and gp130.</p>		
<b>Physical Appearance:</b>	Sterile Filtered White lyophilized (freeze-dried) powder.		
<b>Gene ID:</b>	705819		
<b>Source:</b>	<i>E. coli</i>		
<b>Molecular Weight:</b>	21.1 kDa		
<b>Formulation:</b>	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.		
<b>Purity:</b>	>97% by SDS-PAGE and HPLC analyses.		
<b>Endotoxin Level:</b>	<1 EU/µg of Recombinant Rhesus Macaque Interleukin-6 as determined by LAL method		
<b>Biological Activity:</b>	The ED <sub>50</sub> as determined by the dose-dependent stimulation of the proliferation of IL-6 dependent mouse 7TD1 cells is <0.1 ng/ml.		
<b>Specific Activity:</b>	>1×10 <sup>7</sup> units/mg.		
<b>Amino Acid Sequence:</b>	MAPVLPGEDS KNVAAPHSQP LTSSERIDKH IRYILDGISA LRKETCNRSN MCESSKEALA ENNLNLPKMA EKDGCFQSGF NEDTCLVKII TGLLEFEVYL EYLQNRFESE EQARAVQMS TKVLIQFLQK KAKNLDAITT PEPTTNASLL TKLQAQNQWL QDMTTHLILR SFKEFLQSNL RALRQM		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening to bring contents to the bottom.</b> Reconstitute in sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/ml. Further dilutions should be made in appropriate buffered solutions.		
<b>Storage &amp; Stability:</b>	The lyophilized protein is stable at 2-8°C. Upon receipt, store desiccated at -20°C. After reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. For long term storage of reconstituted protein, it is recommended that a carrier protein such as 0.1% BSA or HSA be added. This depends on the particular application. <b>Avoid repeated freeze/thaw cycles.</b>		

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