

## IL6

### Recombinant Mouse Interleukin-6

<b>Catalog No.</b>	CRI130A	<b>Quantity:</b>	2 µg
	CRI130B		10 µg
	CRI130C		1.0 mg

**Alternate Names:** IL-6, HGF, HSF, BSF-2, HP1, BCSF, IFNB2

**Description:** Interleukin-6 (IL-6) is a multifunctional protein that plays important roles in host defense, acute phase reactions, immune responses, and hematopoiesis. IL-6 is expressed by a variety of normal and transformed cells including T-cells, B-cells, monocytes/macrophages, fibroblasts, hepatocytes, keratinocytes, astrocytes, vascular endothelial cells, and various tumor cells. The production of IL-6 is upregulated by numerous signals including mitogenic or antigenic stimulation, LPS, calcium ionophore, IL-1, IL-2, IFN, TNF, PDGF, and viruses. IL-6 expression in monocytes is inhibited by IL-4 and IL-13.

Recombinant Mouse IL-6 is a single non-glycosylated polypeptide chain containing 188 amino acids.

**Gene ID:** 16193

**Source:** *E. coli*

**Molecular Weight:** ~ 21.7 kDa

**Formulation:** Lyophilized from a 0.2 µm sterile filtered solution of PBS, pH 7.4.

**Purity:** >97% by SDS-PAGE and HPLC

**Endotoxin Level:** <1 EU/µg as determined by LAL method.

**Biological Activity:** Fully biologically active when compared to standard. The ED<sub>50</sub> as determined by the dose-dependent stimulation of the proliferation of IL-6-dependent murine 7TD1 cells is <0.02 ng/ml.

**Specific Activity:** >5 x 10<sup>7</sup> Units/mg

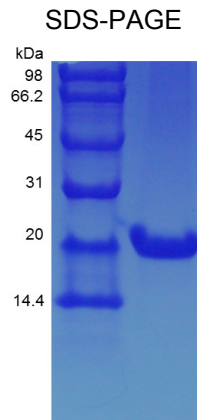
**Amino Acid Sequence:** MFPTSQVRRG DFTEDTTPNR PVYTTSQVGG LITHVLWEIV EMRKELCNGN  
SDCMNDDAL AENNLKLP EI QRNDGCYQTG YNQEICLLKI SSSLLEYHSY  
LEYMKNNLKD NKKDKARVLQ RDTETLIHIF NQEVKDLH KI VLPTPISNAL  
LTDKLESQKE WLRTKTIQFI LKSLEEF LKV TLRSTRQT

**Reconstitution:** **Centrifuge vial prior to opening.** Add 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.

**Storage & Stability:** 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.



**Avoid repeated freeze/thaw cycles.**



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**Cell Sciences**<sup>®</sup>  
65 Parker Street  
Unit 11  
Newburyport, MA 01950

Toll Free: 888-769-1246  
Phone: 978-572-1070  
Fax: 978-992-0298

E-mail: [info@cellsciences.com](mailto:info@cellsciences.com)  
Website: [www.cellsciences.com](http://www.cellsciences.com)