

IL6

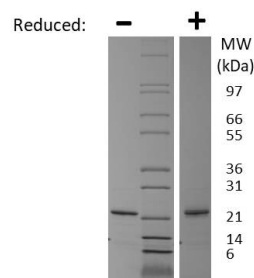
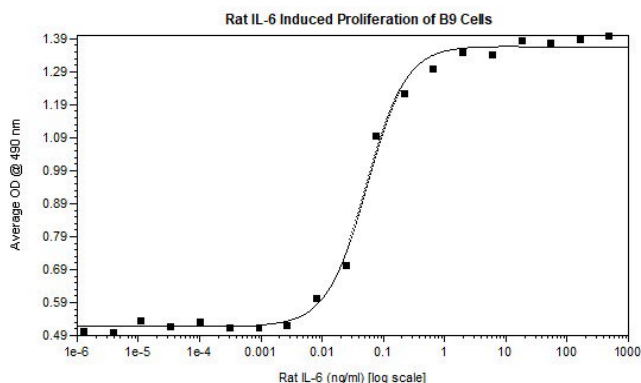
Recombinant Rat Interleukin-6, Animal Free

Catalog No.	CRI150A-AF CRI150B-AF CRI150C-AF	Quantity:	2 µg 10 µg 250 µg
Alternate Names:	HGF; HSF; BSF2; IL-6; IFNB2; IL6, interleukin-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 stimulatory factor 2, B-cell differentiation factor		
Description:	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 alpha and gp130.		
Gene ID:	24498		
Protein Accession No:	P20607		
Source:	<i>E. coli</i>		
Molecular Weight:	21.7 kDa (188 aa)		
Formulation:	Lyophilized from a 0.2 µm filtered aqueous solution containing 0.1% Trifluoroacetic acid (TFA) and 5:1 mannitol to protein.		
Purity:	≥ 90% by reducing and non-reducing SDS-PAGE		
Endotoxin Level:	≤1 EUs/µg by kinetic LAL		
Biological Activity:	ED ₅₀ ≤ 2 ng/mL, as determined by the dose-dependent stimulation of the proliferation of IL-6-dependent mouse B9 cells. ED ₅₀ ≤ 10 pg/mL, by proliferation of 7TD1 cells.		
Specific Activity:	≥ 5.0 x 10 ⁵ units/mg		
Amino Acid Sequence:	MFPTSQVRRG DFTEDTTHNR PVYTTSQVGG LITYVLREIL EMRKELCNGN SDCMNSDDAL SENNLKLPEI QRNDGCFQTG YNQEICLLKI CSGLLEFRFY LEFVKNNLQD NKKDKARVIQ SNTETLVHIF KQEIKDSYKI VLPTPTSNAL LMEKLESQKE WLRTKTIQLI LKALEEFLKV TMRSTRQT		
Reconstitution:	Centrifuge vial prior to opening to bring contents to the bottom. 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.		



Storage & Stability:

The lyophilized product is stable for several weeks at 2-8°C, but should be stored upon receipt at -20°C to -80°C for up to 1 year. After reconstitution, the protein should be divided into working aliquots and frozen at -80°C. **Avoid repeated freeze-thaw cycles.**



Rat IL-6 Gel

Figure: 1 ug run under (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Rat IL-6 is predicted to have a MW of 21.9 kDa.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



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