

## RayBiotech, Inc.

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# Certificate of Analysis and Data Sheet Recombinant Mouse IL-6

**Catalog No.**  
228-10940

**Source:**  
*Escherichia coli*

### **Synonyms:**

IFN- $\gamma$ , B cell differentiation factor (BCDF), BSF-2, HPGF, HSF, MGI-2, IL-6, Interleukin HP-1, B-cell hybridoma growth factor.

### **Introduction:**

Interleukin-6 is a potent pro-inflammatory cytokine primarily produced by activated T cells and an assortment of other cells including endothelial cells and macrophages. IL-6 affects B and T lymphocytes and has been shown to have a role in host defense, acute phase reactions, immune responses and hematopoiesis.

### **Description:**

Interleukin-6 Mouse Recombinant produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 187 amino acids and having a molecular mass of 21709 Dalton.  
The IL-6 is purified by proprietary chromatographic techniques.

### **Physical Appearance:**

Sterile Filtered White lyophilized (freeze-dried) powder.

### **Formulation:**

This protein was lyophilized without any additives.

### **Solubility:**

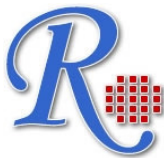
It is recommended to reconstitute the lyophilized Mouse IL-6 in sterile 18M $\Omega$ -cm H<sub>2</sub>O not less than 100 $\mu$ g/ml, which can then be further diluted to other aqueous solutions.

### **Purity:**

Greater than 96.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**



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### ***Stability:***

Lyophilized Interleukin-6 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL6 should be stored at 4°C between 2-7 days and for future use below -18°C.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).  
Please prevent freeze-thaw cycles.

### ***Amino acid sequence:***

FPTSQVRRGD FTEDTTPNRP VYTTSQVGGL ITHVLWEIVE MRKELCNGNS DCMNNDDALA  
ENNLKLPEIQ RNDGICYQTGY NQEICLLKIS SGLLEYHSYL EYMKNLKDND KKDKARVLQR  
DTETLIHIFN QEVKDLHKIV LPTPISNALL TDKLESQKEW LRTKTIQFIL KSLEEFLLKVT  
LRSTRQT.

### ***Biological Activity:***

The ED<sub>50</sub> as determined by the dose-dependant stimulation of the proliferation of IL-6-dependent murine 7TD1 cells is < 0.02 ng/ml, corresponding to a specific activity of > 50,000,000 units/mg.

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