



## Interleukin-6, rat recombinant (rrIL-6)

**Catalog No:** 87361  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** IFN-b2, B cell differentiation factor (BCDF), BSF-2, HPGF, HSF, MGI-2, IL-6, Interleukin HP-1, B-cell hybridoma growth factor

### Background

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 rat recombinant produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 187 amino acids and having a molecular mass of 21732 Dalton. IL-6 is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

### Formulation

The protein was lyophilized from 0.02% TFA.

### Solubility

It is recommended to reconstitute the lyophilized Interleukin-6 with 10 mM HCl at a concentration of 0.1 mg/ml which can then be further diluted to other aqueous solutions.

### Stability

Lyophilized Interleukin-6, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL-6 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.

### Purity

Greater than 90.0% as determined by SDS-PAGE.

### Amino Acid Sequence

The sequence of the first five N-terminal amino acids was determined and was found to be Met-Phe-Pro-Thr-Ser.

### Activity

The ED<sub>50</sub> is less than 0.01 ng/ml as determined by dose-dependent stimulation of mouse 7TD1 cells.

### Usage

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