

## 32-1416: mL 6 Recombinant Protein

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

### Description

Source : Escherichia Coli. 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. 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.

### Product Info

**Amount :** 10  $\mu$ g  
**Purification :** Greater than 96.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.  
**Content :** Lyophilized from a 0.2 $\mu$ m filtered concentrated solution in PBS, pH 7.4.  
**Storage condition :** 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 :** FPTSQVRRGD FTEDTTPNRP VYTTSQVGGL ITHVLWEIVE MRKELCNGNS DCMNND DALA ENNLK LPEIQ  
RNDG CYQTGY NQEICLLKIS SGLLEYHSYL EYMKNNLKDN KKDKARVLQR DTETLIHIFN QEVKDLHKIV  
LPTPISNALL TDKLESQKEW LRTKTIQFIL KSLEEF LKVT LRSTRQT.

### Application Note

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