

## 32-20349: Recombinant Rat IL-6(Discontinued)

**Reactivity :** Human, Mouse, Rat

**Alternative Name :** 26 kDa protein, IFN-beta2, B cell differentiation factor (BCDF), BSF-2, HPGF, HSF, MGI-2

### Description

**Source:** E.coli 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. Murine IL-6 is inactive on human cells, while both human and murine are equally active on murine cells. Recombinant Rat IL-6 is a 21.7 kDa protein containing 188 amino acid residues.

### Product Info

**Amount :** 2 µg / 10 µg

**Purification :** Purity:  $\geq 98\%$  by SDS-PAGE gel and HPLC analyses.

**Content :** This recombinant protein is supplied in lyophilized form.

**Amino Acid :** MFPTSQVRRG DFTEDTTHNR PVYTT SQVGG LITYVLREIL EMRKELCNGN SDCMNSDDAL SENNLKLP EI  
QRNDGCFQTG YNQEICLLKI CSGLLEFRFY LEFVKNNLQD NKKDKARVIQ SNTETLVHIF KQEIKDSYKI  
VLPTPSNAL LMEKLESQKE WLRTKTIQLI LKALEEFLKV TMRSTRQT

### Application Note

The  $ED_{50}$  as determined by the dose-dependent stimulation of the proliferation of IL-6-dependent murine 7TD1 cells is  $< 0.01$  ng/ml, corresponding to a specific activity of  $> 1 \times 10^8$  units/mg.