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# IL-6 Recombinant Protein

CATALOG NUMBER: 40-112

## Specifications

| | |
|---|---|
| **SPECIES:** | Murine |
| **SOURCE SPECIES:** | E. coli |
| **SEQUENCE:** | MFPTSQVRRG DFTEDTTPNR PVYTTSQVGG LITHVLWEIV EMRKELCNGN SDCMNNDDAL AENNLKLPEI QRNDGCYQTG YNQEICLLKI SSGLLEYHSY LEYMKNNLKD NKKDKARVLQ RDTETLIHIF NQEVKDLHKI VLPTPISNAL LTDKLESQKE WLRTKTIQFI LKSLEEFLKV TLRSTRQT |
| **TESTED APPLICATIONS:** | |
| **BIOLOGICAL ACTIVITY:** | The ED50 was determined by the dose - dependent stimulation of the proliferation of IL - 6 - dependent murine 7TD1 cells is < 0.02 ng/mL, corresponding to a specific activity of > 5 x $10^7$ units/mg. |

## Properties

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|---|---|
| **PURITY:** | Greater than 98% by SDS-PAGE gel and HPLC analyses.<br><br>Endotoxin level is less than 0.1 ng per ug (1EU/ug). |
| **PHYSICAL STATE:** | Lyophilized |
| **STORAGE CONDITIONS:** | The lyophilized IL-6 recombinant protein is stable for at least 2 years from date of receipt at -20˚C. Reconstituted IL-6 is stable for at least 3 months when stored in working aliquots with a carrier protein at -20˚C. As with any protein, exposing IL-6 recombinant protein to repeated freeze / thaw cycles is not recommended. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature. |

## Additional Info

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|---|---|
| **ALTERNATE NAMES:** | Il-6, Il-6, Interleukin-6, B-cell hybridoma growth factor, IL-6 |
| **ACCESSION NO.:** | NP_112445.1 |
| **PROTEIN GI NO.:** | 13624311 |

## Background

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 murine IL-6 is a 21.7 kDa protein containing 187 amino acid residues.

**FOR RESEARCH USE ONLY**

December 13, 2016