

Recombinant Murine Interleukin-6 (IL-6)

Alternate names:	B-cell stimulatory factor 2, BSF-2, CDF, CTL differentiation factor, Hybridoma growth factor, IFNB2, IL-6, Interferon beta-2
Catalog No.:	PA013X
Quantity:	10 µg
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.
Uniprot ID:	P08505
NCBI:	10090
GeneID:	16193
Species:	Mouse
Source:	E. coli
Format:	State: Sterile filtered Lyophilized protein without additives. Purity: >98% pure by SDS-PAGE and HPLC analyses. Endotoxin Level: < 0.1 ng per µg (1EU/µg) Reconstitution: Restore in water to a concentration of 0.1-1.0 mg/ml. This solution can then be diluted into other aqueous buffers and stored at 2-8°C for one week or at -20°C for future use.
Description:	Recombinant murine IL-6 is a 21.7 kDa protein containing 187 amino acid residues. AA Sequence: MFPTSQVRRG DFTEDTTPNR PVYTTSQVGG LITHVLWEIV EMRKELCNGN SDCMNNDDAL AENNLKLP EI QRNDGICYTG YNQEICLLKI SSSLLEYHSY LEYMKNLKD NKKDKARVLQ RDTETLIHIF NQEVKDLHKI VLPTPISNAL LTKLESQKE WLRTKTIQFI LKSLEEFLLKV TLRSTRQT Biological Activity: The ED50 as determined by the dose-dependent stimulation of the proliferation of IL-6-dependent murine 7TD1 cells is < / = 0.02 ng/ml. Specific Activity: > / = 5 x 10 ⁷ units/mg Molecular weight: 21.7 kDa (187 aa)
Add. Information:	Centrifuge the vial prior to opening.

Storage:

The lyophilized protein is stable at -20°C for one year from despatch.
The reconstituted IL-6 is stable for three months when stored in working aliquots with a carrier protein at -20°C.
Avoid repeated freezing and thawing.