

IL-6, Mouse

Cat. No.: Z02767-10

Size: 10.0 ug

Synonyms: Interleukin-6 (IL-6), Mouse;

Description:

Interleukin 6 is a multi functional protein that plays important roles in host defense, acute phase reactions, immune responses, and hematopoiesis. IL-6 is expressed by a variety of normal and transformed cells including T cells, B cells, monocytes/macrophages, fibroblasts, hepatocytes, keratinocytes, astrocytes, vascular endothelial cells, and various tumor cells. The production of IL-6 is upregulated by numerous signals including mitogenic or antigenic stimulation, LPS, calcium ionophore, IL-1, IL-2, IFN, TNF, PDGF, and viruses. IL-6 expression in monocytes is inhibited by IL-4 and IL-13.

Amino Acid Sequence:

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00001 MFPTSQVRRG DFTEDTPNR PVYTTSQVGG LITHVLWEIV
00041 EMRKELCNGN SDCMNDDAL AENNLKLEI QRNDGCYQTG
00081 YNQEICLLKI SSGLEIYHSY LEYMKNLKD NKKDKARVLQ
00121 RDTETLIHIF NQEVKDLHKI VLPTPISNAL LTKLESQKE
00161 WLRTKTIQFI LKSLEEFLKV TLRSTRQT
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Source: *E. coli*

Species: Mouse

Biological Activity: Fully biologically active when compared to standard. The ED₅₀ as determined by the dose-dependent stimulation of the proliferation of IL-6-dependent murine 7TD1 cells is less than 0.02 ng/ml, corresponding to a specific activity of $> 5 \times 10^7$ IU/mg.

Molecular Weight: Approximately 21.7 kDa, a single non-glycosylated polypeptide chain containing 188 amino acids.

Formulation: Lyophilized from a 0.2 µm filtered solution in PBS, pH 7.4.

Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Reconstitution: We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

Purity: > 97 % by SDS-PAGE and HPLC analyses.

Endotoxin Level: Less than 1 EU/µg of rMuIL-6 as determined by LAL method.

Storage: This lyophilized preparation is stable at 2-8 °C, but should be kept at -20 °C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 °C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 °C to -70 °C. Avoid repeated freeze/thaw cycles.