



Technical Data Sheet

Recombinant Murine Interleukin-6 (rMull-6)

Murine Interleukin-6

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 up-regulated 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.

Catalog Number: RC232-17

Source: *Escherichia coli*.

Molecular Weight: Approximately 21.7 kDa, a single non-glycosylated polypeptide chain containing 187 amino acids.

Quantity: 2ug/10ug/1.0 mg

AA Sequence: FPTSQVRRGD FTEDTTPNRP VYTTSQVGGI ITHVLWEIVE MRKELCNGNS
DCMNNDALA ENNLKLPFIQ RNDGCYOTGY NOEICLLKIS SGLLEYHSYL
EYMKNNLKDN KKDKARVLQR DTETLIHIFN QEVKDLHKIV LPTPISNALL
TDKLESQKEW LRTKTIQFIL KSLEEFKVT LRSTRQT

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

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 < 0.02 ng/ml, corresponding to a specific activity of > 5 x 10⁷ units/mg.

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

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



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- 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 $\leq -20^{\circ}\text{C}$. Further dilutions should be made in appropriate buffered solutions.
- Storage:** This lyophilized preparation is stable for several weeks at $2-8^{\circ}\text{C}$, 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 $2-8^{\circ}\text{C}$. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C . Avoid repeated freeze/thaw cycles.
- Usage:** This material is offered by Bio Basic Inc for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.