

Recombinant Mouse Il6 protein

Cat. No. Il6-12M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Il6 protein was expressed in Escherichia coli.
Species	Mouse
Source	E.coli
ProteinLength	188
Description	Interleukin-6 (IL-6) encoded by the IL-6 gene, acts as both a pro-inflammatory and anti-inflammatory cytokine. It is secreted by T cells and macrophages to stimulate immune response. It plays an essential role in the final differentiation of B-cells into Ig-secreting cells involved in lymphocyte and monocyte differentiation. It also induces myeloma and plasmacytoma growth and induces nerve cells differentiation acts on B-cells, T-cells, hepatocytes, hematopoietic progenitor cells and cells of the CNS. The mouse IL-6 is a single non-glycosylated polypeptide chain containing 187 amino acids and it signals through a cell-surface type I cytokine receptor complex consisting of the ligand-binding IL-6R α chain (CD126), and the signal- transducing component gp130 (also called CD130). The mouse IL-6 shares 40 % and 85 % a.a. sequence identity with human and rat IL-6 and it is equally active on human and rat cells.
Form	Lyophilized from a 0.2 μ m filtered solution in 30 mM Acetic Acid, pH 3.0, 150 mM NaCl, 5 % Trehalose, 0.02 % Tween-20.
Bio-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

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	is less than 0.02 ng/ml, corresponding to a specific activity of $> 5 \times 10^7$ IU/mg.
Molecular Mass	Approximately 21.7 kDa, a single non-glycosylated polypeptide chain containing 188 amino acids.
AA Sequence	MFPTSQVRRGDFTEDTTPNRPVYTTSQVGGLITHVLWEIVEMRKELCNGNSDCMNN DDALAENNLKLPEIQRNDGCYQTGYNQEICLLKISSGLLEYHSYLEYMKNNLKDNNK DKARVLQRDTETLIHIFNQEVKDLHKIVLPTPISNALLTDKLESQKEWLRTKTIQFILKS LEEFLKVTLRSTRQT
Endotoxin	Less than 1 EU/g of rMuL-6 as determined by LAL method.
Purity	>97% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
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 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	IL6
Official Symbol	IL6

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Synonyms	IL6; interleukin 6; interleukin-6; interleukin HP-1; B-cell hybridoma growth factor; Il-6;
Gene ID	16193
mRNA Refseq	NM_031168
Protein Refseq	NP_112445
UniProt ID	P08505

SDS-PAGE of Il6-12M

