

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	<p>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-6Rα 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.</p>
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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

MFPTSQVRRGDFTE DTPNRPVYTTSQVGGLITHVLWEIVEMRKELCNGNSDCMNN
DDALAENNLKLPEIQRNDGCYQTGYNQEICLLKISSGLLEYHSYLEYMKNNLKDNNK
DKARVLQRDTE TLIHIFNQEVKDLHKIVLPTPISNALLTDKLESQKEWLRTKTIQFILKS
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;

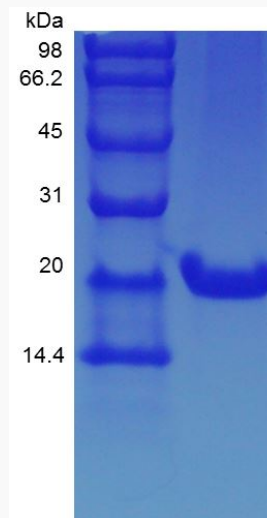
Gene ID 16193

mRNA Refseq NM_031168

Protein Refseq NP_112445

UniProt ID P08505

SDS-PAGE of Il6-12M



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