

Recombinant Rhesus IL6 protein

Cat. No. IL6-560R Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Rhesus IL6 protein was expressed in Escherichia coli.
Species	Rhesus macaque
Source	E.coli
ProteinLength	186
Description	Interleukin-6 (IL-6) is an interleukin that is encoded by the IL-6 gene and acts as both a pro-inflammatory and anti-inflammatory cytokine. It is secreted by T cells and macrophages to stimulate immune response. Furthermore, 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 rhesus macaque IL-6 contains 186 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).
Form	Lyophilized from a 0.2 μ m filtered concentrated solution in 50 mM Tris-HCl, pH9.0, 600 mM NaCl, with 0.02 % Tween-20.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay usingIL-6-dependent murine 7TD1 cells is less than 0.1 ng/ml, corresponding to a specific activity of > 1.0 \times

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	10 ⁷ IU/mg.
Molecular Mass	Approximately 21.1 kDa, a single non-glycosylated polypeptide chain containing 186 amino acids.
AA Sequence	MAPVLPGEDSKNVAAPHSQPLTSSERIDKHIRYILDGISALRKETCNRSNMCESSKEA LAENNLNLPKMAEKDGCQSGFNEDTCLVKIITGLLEFEVYLEYLQNRFESSEEQAR AVQMSTKVLIQFLQKKAKNLDAITTPEPTTNASLLTKLQAQNQWLQDMTTHLILRSFK EFLQSNLRALRQM
Endotoxin	Less than 1 EU/g of rRhIL-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 0.1-1.0 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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Gene ID	705819
mRNA Refseq	NM_001042733.2
Protein Refseq	NP_001036198.2
UniProt ID	G7MLP6

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