

Active Recombinant Mouse Il6 Protein (187 aa)

Cat. No. Il6-024I Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Il6 Protein without tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	187
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.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
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 is < 0.02 ng/mL, corresponding to a specific activity of > 5 × 10 ⁷ units/mg
Molecular Mass	Approximately 21.7 kDa, a single non-glycosylated polypeptide chain containing 187 amino acids

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AA Sequence	FPTSQVRRGDFTEDTTPNRPVYTTTSQVGGGLITHVLWEIVEMRKELCNGNSDCMNND DALAENNLKLPEIQRNDGICYQTGYNQEICLLKISSGLLEYHSYLEYMKNNLKDNNK KARVLQRDTE TLIHIFNQEVKDLHKIVLPTPISNALLTDKLESQKEWLR TKTIQFILKSL EEFLKVTLRSTRQT
Endotoxin	Less than 1 EU/mg of rMUL-6 as determined by LAL method.
Purity	>97% by SDS-PAGE and HPLC analyses.
Storage	This lyophilized preparation is stable at 2-8 centigrade, but should be kept at -20 centigrade for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 centigrade. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 to -70 centigrade. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2mm filtered concentrated solution in PBS, pH 7.4.
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 interleukin 6 [<i>Mus musculus</i>]
Official Symbol	IL6
Synonyms	IL6; interleukin 6; interleukin-6; interleukin HP-1; B-cell hybridoma growth factor; IL-6;

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Gene ID	16193
mRNA Refseq	NM_031168
Protein Refseq	NP_112445
UniProt ID	P08505

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