

Active Recombinant Mouse Il6 Protein

Cat. No. Il6-113M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Mouse interleukin 6 (Il6) without tag was expressed in E.coli.
Species	Mouse
Source	E.coli
Description	This gene encodes a member of the interleukin family of cytokines that have important functions in immune response, hematopoiesis, inflammation and the acute phase response. The ectopic overexpression of the encoded protein in mice results in excessive plasma cells in circulation, leading to death. Mice lacking the encoded protein exhibit abnormalities in hepatic acute phase response, some immune mechanisms, bone resorption in response to estrogen, liver regeneration and wound healing. Alternative splicing results in multiple transcript variants encoding different isoforms.
Bio-activity	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 $\geq 5 \times 10^7$ units/mg.
Molecular Mass	21.7 kDa
AA Sequence	MFPTSQVRRGDFTEDTTPNRPVYTTSQVGGLITHVLWEIVEMRKELCNGNSDCMNN DDALAENNLKLPEIQRNDGCYQTGYNQEICLLKISSGLLEYHSYLEYMKNNLKDNNK DKARVLQRDTETLIHIFNQEVKDLHKIVLPTPISNALLTDKLESQKEWLRTKTIQFILKS

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	LEEFLKVTLRSTRQT
Endotoxin	Endotoxin level is < 0.1 ng/g of protein (< 1 EU/g)
Purity	>95%, as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
Storage	Store at -80 centigrade.
Storage Buffer	Lyophilized from a 0.2 M filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2
Reconstitution	Resuspend the protein in the desired concentration in proper buffer.

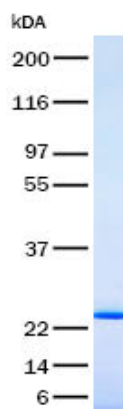
GENE INFORMATION

Gene Name	IL6 interleukin 6 [<i>Mus musculus</i> (house mouse)]
Official Symbol	IL6
Synonyms	IL6; interleukin 6; IL-6; interleukin-6; B-cell hybridoma growth factor; interleukin HP-1
Gene ID	16193
mRNA Refseq	NM_031168
Protein Refseq	NP_112445
UniProt ID	P08505

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