

Active Recombinant Mouse Il6 Protein, His-Tagged

Cat. No. Il6-01M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Il6 Protein, His-tagged was expressed in E. coli cell
Species	Mouse
Source	E.coli
Description	Interleukin 6 (IL-6) is an interleukin that acts as both a pro-inflammatory cytokine and an anti-inflammatory myokine. In humans, it is encoded by the IL6 gene. In addition, osteoblasts secrete IL-6 to stimulate osteoclast formation. Smooth muscle cells in the tunica media of many blood vessels also produce IL-6 as a pro-inflammatory cytokine. IL-6's role as an anti-inflammatory myokine is mediated through its inhibitory effects on TNF-alpha and IL-1, and activation of IL-1ra and IL-10.
Form	Lyophilized powder
AA Sequence	MFPTSQVRRGDFTEDTTPNRPVYTTSQVGGLITHVLWEIVEMRKELCNGNSDCMNN DDALAENNLKLPEIQRNDGCYQTGYNQEICLLKIS SGLLEYHSYLEYMKNNLKDNDKARVLQRDTETLIHIFNQEVKDLHKIVLPTPISNAL LTDKLESQKEWLRTKTIQFILKSLEEFKVTLRSTRQ T with polyhistidine tag at the C-terminus
Endotoxin	<0.1 EU per 1 µg of the protein by the LAL method.
Bio-activity	Measure by its ability to induce proliferation in 7TD1 cells. The ED50 for this effect is <0.01 ng/mL. The specific activity of recombinant mouse IL-6 is approximately >1x

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	10 ⁸ IU/mg.
Purity	>98% as determined by SDS-PAGE. Ni-NTA chromatography
Storage Buffer	The protein was lyophilized from a solution containing 1X PBS, pH 8.0.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Storage	Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C.
Notes	Please use within one month after protein reconstitution.

GENE INFORMATION

Gene Name	Il6 interleukin 6 [<i>Mus musculus</i> (house mouse)]
Official Symbol	Il6
Synonyms	Il-6
Gene ID	16193
mRNA Refseq	NM_001314054.1
Protein Refseq	NP_001300983.1
UniProt ID	P08505

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