

## Recombinant Mouse Il6 Protein, His-tagged

Cat. No. Il6-214M Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Mouse Il6 Protein with His tag was expressed in E. coli.

**Species** Mouse

**Source** E.coli

**Description** Acute phase response is induced by interleukin-6 (IL-6) produced by T cells, macrophages, fibroblasts, endothelial and other cells. IL-6 induces proliferation or differentiation in many cell types including B cells, thymocytes and T cells. IL-6, in concert with TGF- $\beta$ , is important for developing Th17 responses. IL-6 binds to IL-6R $\alpha$  and through this association induces gp130 homodimerization. gp130 homodimerization triggers the Jak/Stat cascade and the SHP-2/Erk MAP kinase cascade. IL-6 also forms a complex with an IL-6R $\alpha$  splice variant that is nonmembrane-associated. The IL-6/soluble IL-6R $\alpha$  complex can then activate the gp130 signaling pathway in cells that express gp130 but not IL-6R $\alpha$ . Research studies have shown that IL-6, through increasing expression of proangiogenic VEGF, may also contribute to metastatic breast cancer.

**Molecular Mass** ~26 kDa

**AA Sequence** MKFLSARDFHPVAFLGLMLVTTTAFPTSQVRRGDFTEDTTPNRPVYTTSQVGGGLITH  
VLWEIVEMRKELCNGNSDCMNNDDALAENNLKLPFIQRNDGQYQTGYNQEICLLKIS  
SGLLEYHSYLEYMKNNLKDKNKDKARVLQRDTETLIHIFNQEVKDLHKIVLPTPISNAL  
LTDKLESQKEWLRTKTIQFILKSLEEFKVTLRSTRQT

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<b>Purity</b>	Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).
<b>Notes</b>	For research use only, not for use in diagnostic procedure.
<b>Storage</b>	Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.
<b>Storage Buffer</b>	PBS, 4M Urea, pH7.4

## GENE INFORMATION

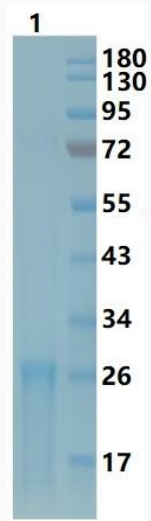
<b>Gene Name</b>	Il6 interleukin 6 [ <i>Mus musculus</i> (house mouse) ]
<b>Official Symbol</b>	Il6
<b>Synonyms</b>	Il6; interleukin 6; Il-6; interleukin-6; B-cell hybridoma growth factor; interleukin HP-1
<b>Gene ID</b>	16193
<b>mRNA Refseq</b>	NM_031168
<b>Protein Refseq</b>	NP_112445
<b>UniProt ID</b>	P08505

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SDS-PAGE



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