

## Active Recombinant Mouse IL6 Protein

**Cat. No.** IL6-185M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Mouse IL6 Protein without tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | Interleukin 6 (IL-6) is a cytokine that is expressed by T cells, macrophages, and muscle cells. IL-6 acts to stimulate an immune response upon infection or trauma. IL-6 has both pro-inflammatory and anti-inflammatory functions, is capable of promoting fever, and signals through the cell-surface type I cytokine receptor complex containing the IL-6Ra and gp130 chains. Human IL-6 is active on mouse and rat cells. |
| <b>Bio-activity</b>     | B9 cell proliferation, ED50≤50 pg/mL                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Molecular Mass</b>   | Monomer, 21.9 kDa (188 aa)                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>AA Sequence</b>      | MFPTSQVRRGDFTEDTTPNRPVYTTSQVGGLITHVLWEIVEMRKELCNGNSDCMNN<br>DDALAENNLKLPEIQRNDGCYQTGYNQEICLLKISSGLLEYHSYLEYMKNNLKDNNK<br>DKARVLQRDTETLIHIFNQEVKDLHKIVLPTPISNALLTDKLESQKEWLRTKTIQFILKS<br>LEEFLKVTLRSTRQT                                                                                                                                                                                                                      |
| <b>Endotoxin</b>        | ≤1 EUs/μg, Kinetic LAL                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Purity</b>           | ≥95%, Reducing and Non-Reducing SDS PAGE                                                                                                                                                                                                                                                                                                                                                                                      |

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|                       |                                                                                                                                                                                                                                                                                                                                       |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>      | 12 months from date of receipt when stored at -20 to -80 centigrade as supplied.<br>1 month when stored at 4 centigrade after reconstituting as directed.<br>3 months when stored at -20 to -80 centigrade after reconstituting as directed.                                                                                          |
| <b>Storage</b>        | Storage Prior to Reconstitution: -20 centigrade                                                                                                                                                                                                                                                                                       |
| <b>Storage Buffer</b> | Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)                                                                                                                                                                                                                          |
| <b>Reconstitution</b> | Sterile 10 mM HCl at 0.1 mg/mL                                                                                                                                                                                                                                                                                                        |
| <b>Shipping</b>       | Room temperature                                                                                                                                                                                                                                                                                                                      |
| <b>Instructions</b>   | Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80 centigrade and avoid repeat freeze thaws. |

## 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; interleukin-6; interleukin HP-1; B-cell hybridoma growth factor; IL-6; |
| <b>Gene ID</b>         | 16193                                                                                      |
| <b>mRNA Refseq</b>     | NM_031168                                                                                  |
| <b>Protein Refseq</b>  | NP_112445                                                                                  |

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UniProt ID

P08505

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