

# Recombinant Mouse Interleukin 6

**Cat. No.** IL6-558M    **Lot. No.** (See product label)

## SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | Recombinant mouse IL6 produced in E. coli and purified via affinity chromatography.                                                                                                                                                                                                                                               |
| <b>Species</b>             | Mouse                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>              | Mouse                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>         | IL6 is an important proinflammatory and immunoregulatory cytokine expressed by various cells. IL6 has been shown to inhibit the growth of early stage and to promote the proliferation of advanced stage melanoma cells in vitro.                                                                                                 |
| <b>Form</b>                | Lyophilized from a sterile filtered solution of PBS, pH 7.4.                                                                                                                                                                                                                                                                      |
| <b>Purity</b>              | >95% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                   |
| <b>Molecular Weight</b>    | ~20 kDa                                                                                                                                                                                                                                                                                                                           |
| <b>Biological Activity</b> | >1 x 10 <sup>8</sup> units/mg. Bioactivity is determined in a dose response proliferation assay of B9 hybridoma cells as measured by the reduction of MTS. Mouse IL6 is active at 0.1 to 10 ng/ml for most in vitro applications. Optimal concentration for individual application should be determined by a dose response assay. |
| <b>Endotoxin</b>           | <1 ng/μg                                                                                                                                                                                                                                                                                                                          |
| <b>Reconstitution</b>      | We recommend that the vial be briefly centrifuged prior to opening to bring the contents to the bottom. Lyophilized mouse IL6 may be reconstituted in H <sub>2</sub> O to 0.1                                                                                                                                                     |

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mg/ml to obtain a 0.0125M PBS final solution. Stock solutions should be apportioned into working aliquots and stored at  $\leq -20^{\circ}\text{C}$ . Further dilution should be made in medium or buffered solution containing carrier protein, such as PBS with 0.1% BSA.

**Storage**

Lyophilized IL6 should be stored at  $\leq +4^{\circ}\text{C}$ , preferably desiccated. Store reconstituted IL6 at  $\leq -20^{\circ}\text{C}$ . Keep freeze-thaw cycles to a minimum.

**Official Symbol**

IL6

**Pathways**

Cytokine-cytokine receptor interaction, Hematopoietic cell lineage, Jak-STAT signaling pathway, Prion disease, Toll-like receptor signaling pathway

## GENE INFORMATION

**Gene Name**

IL6 interleukin 6 [ *Mus musculus* ]

**Synonyms**

IL6; interleukin 6; IL-6; Interleukin-6; IL-6; B-cell hybridoma growth factor; Interleukin HP-1; G-CSF; MGF; Four-helical cytokine-like, core; Four-helical cytokine, core; interleukin-6

**Gene ID**

16193

**mRNA Refseq**

NM\_031168

**Protein Refseq**

NP\_112445

**MIM**

96559

**UniProt ID**

P08505

**Chromosome**

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**Location****Function**

Cytokine activity, Interleukin-6 receptor binding, Protein binding

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