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## Mouse IL-6 Recombinant Protein Carrier-Free

Catalog Number: 34-8061


Also Known As: Interleukin-6, IL6

RUO: For Research Use Only

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### Product Information

Contents: Mouse IL-6 Recombinant Protein Carrier-Free

 Catalog Number: 34-8061

Handling Conditions: For best recovery, quick-spin vial prior to opening. Use in sterile environment.

Source: E. coli expressed amino acids Phe 25-Thre 211 of mature mouse IL-6 (accession # MMINTL6).


Molecular Mass: The protein is methionylated at the N-terminal. The DTT reduced and non-reduced protein migrate as 19 kDa polypeptides on SDS-PAGE.

Purity: Greater than 98%, as determined by SDS-PAGE


Endotoxin Level: Less than 0.01 ng/ug cytokine as determined by the LAL assay.

Bioactivity: The ED50 of this protein, as measured by B9 cell proliferation assay, is less than or equal to 5 pg/mL. This corresponds to a specific activity of greater than or equal to 2 x 10<sup>8</sup> Units/mg.

Formulation: Sterile liquid: 40% acetonitrile, 0.1% trifluoroacetic acid. 0.22 µm filtered.

 Temperature Limitation: Store at less than or equal to -70°C.

 Batch Code: Refer to Vial

 Use By: Refer to Vial

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### Description

Mouse IL-6 (also known as B Cell Stimulating Factor, BCSF, and BSF-2) is a ~21-28 kDa factor produced by a variety of cell types, including monocytes, fibroblasts and endothelial cells. Upon stimulation, macrophages, T, B, mast, and glial cells, eosinophils, keratinocytes and granulocytes also secrete IL-6. This pleiotropic cytokine influences the antigen-specific immune response, inflammatory response, and the development of neurons, and is a major mediator of the acute phase reaction.

### Applications Reported

Recombinant mouse IL-6 is biologically active and can promote proliferation of mouse B cell lines in culture.

### Applications Tested

The ED50 of this protein, as measured by B9 cell proliferation assay, is less than or equal to 5 pg/mL. This corresponds to a specific activity of greater than or equal to 2 x 10<sup>8</sup> Units/mg.

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