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## Human IL-6 Recombinant Protein

Catalog Number: 14-8069


Also Known As: Interleukin-6, IL6

RUO: For Research Use Only. Not for use in diagnostic procedures.

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### Product Information

Contents: Human IL-6 Recombinant Protein

 Catalog Number: 14-8069

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

Source: E. coli expressed amino acids Pro 29-Met 212 of mature human IL-6 (accession # AF372214).


Molecular Mass: The methionylated N-terminal protein has a predicted molecular mass of 21,041. The DTT-reduced and non-reduced protein migrate as 16 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: Measured by human TF-1 cell proliferation assay. The ED<sub>50</sub> is 0.1 ng/ml, corresponding to a specific activity of 1.0 x 10<sup>7</sup> Units/mg.

Formulation: Sterile liquid; 10 mM sodium phosphate, pH 7.2, 150 mM NaCl, 0.5% BSA. 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

Human IL-6 (also known as B Cell Stimulating Factor BCSF, 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, glial cells, eosinophils, keratinocytes and granulocytes also secrete IL-6. This pleiotropic cytokine influences antigen-specific immune response, inflammatory response, and the development of neurons and is a major mediator of the acute phase reaction.

### Applications Reported

Recombinant human IL-6 is biologically active and can promote proliferation of human cell line in culture. It is also used as standard in human IL-6 ELISA.

### Applications Tested

This recombinant human IL-6 has been tested by sandwich ELISA using anti-human IL-6 antibody pair (MQ2-13A5/MQ2-39C3) and in bioassays using human cell line TF-1. The ED<sub>50</sub> measured in a TF-1 proliferation assay is typically less than 0.10 ng/ml, corresponding to a specific activity of greater than 1x10<sup>7</sup> Units/mg.

### Related Products

13-7068 Anti-Human IL-6 Biotin (MQ2-39C3)

14-7069 Anti-Human IL-6 Purified (MQ2-13A5)

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