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## Human IL-4 Recombinant Protein Carrier-Free

Catalog Number: 34-8049


Also Known As: Interleukin-4, IL4

RUO: For Research Use Only

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### Product Information

Contents: Human IL-4 Recombinant Protein Carrier-Free

 Catalog Number: 34-8049

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

Source: E. coli expressed amino acids His 25-Ser 153 of mature human IL-4 (accession # AF 395008).

Molecular Mass: The protein is not methionylated at the N-terminal and has a predicted molecular mass of 14,963. The DTT reduced protein migrates as a 15 kDa polypeptide on SDS-PAGE and the non-reduced protein migrates with slightly greater mobility.

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 TF-1 cell proliferation assay, is less than or equal to 175 pg/mL. This corresponds to a specific activity of greater than or equal to 5.7 x 10<sup>6</sup> Units/mg.

Formulation: Sterile liquid; phosphate buffered saline, pH 7.2, 150 mM NaCl. 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-4 is a ~15-19 kDa factor also known as BCDF, BCGF-1 and BSF-1. IL-4 is secreted by activated Th2 and natural killer T cells and to a lesser extent by Th1 and mast cells. IL-4 is species-specific and promotes proliferation and differentiation of B cells. IL-4 in conjunction with other signals such as CD40 induces Ig isotype switching of B cells and upregulation of surface antigens including MHC class II and CD23.

### Applications Reported

Recombinant human IL-4 is biologically active and can promote proliferation of B lymphocytes in culture.

### Applications Tested

The ED50 of this protein, as measured by TF-1 cell proliferation assay, is less than or equal to 175 pg/mL. This corresponds to a specific activity of greater than or equal to 5.7 x 10<sup>6</sup> Units/mg.

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