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## Mouse IL-4 Recombinant Protein

Catalog Number: 14-8041

Also Known As: Interleukin-4, IL4

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

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### Product Information

Contents: Mouse IL-4 Recombinant Protein

**REF** Catalog Number: 14-8041

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

Source: E. coli expressed amino acids his 21-ser140 of mature mouse IL-4 accession # NM\_021283


Molecular Mass: The protein is not methionylated at the N-terminal and has a predicted molecular mass of 13,557. The DTT reduced protein migrates as a 13 kDa polypeptide on SDS-PAGE.

Purity: > 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 CTLL-2 proliferation assay, is less than or equal to 1250 pg/mL. This corresponds to a specific activity of greater than or equal to 8 x 10e5 Units/mg.

Formulation: Sterile liquid: 20mM Tris, 0.1M NaCl, pH 7.5, 1.0% BSA as a carrier. 0.22 um filtered.

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

**LOT** Batch Code: Refer to Vial

 Use By: Refer to Vial

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### Description

Mouse IL-4, also known as BCDF, BCGF-1 and BSF-1, 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 the upregulation of surface MHC class II and CD23.

### Applications Reported

Recombinant mouse IL-4 is biologically active and can promote proliferation of mouse T lymphocytes in culture. It is also used as a cytokine standard in mouse IL-4 ELISA.

### Applications Tested

The ED50 of this protein, as measured by CTLL-2 proliferation assay, is less than or equal to 1250 pg/mL. This corresponds to a specific activity of greater than or equal to 8 x 10e5 Units/mg.

### Related Products

00-4202 ELISA Diluent Solution (5X)

13-7042 Anti-Mouse IL-4 Biotin (BVD6-24G2)

14-7041 Anti-Mouse IL-4 Purified (11B11)

18-4100 Avidin HRP

44-2404 Nunc MaxiSorp® flat-bottom 96 well plate

88-7044 Mouse IL-4 ELISA Ready-SET-Go!®

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