

Human IL-4 Recombinant Protein

Catalog Number: 14-8049 Also Known As:Interleukin-4, IL4

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

Product Information

Contents: Human IL-4 Recombinant Protein

REF Catalog Number: 14-8049

Handling Conditions: For best recovery, quick-spin vial

prior to opening. Use in a 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: > 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 10e6 Units/mg.

Formulation: Sterile liquid; phosphate buffered saline, pH

7.2, 1.0% BSA. 0.22 um filtered.

Temperature Limitation: Store at less than or equal to -

70°C.

■ Batch Code: Refer to Vial

☐ Use By: Refer to Vial

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. It is also used as standard cytokine in human IL-4 ELISA.

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 10e6 Units/mg.

Related Products

13-7048 Anti-Human IL-4 Biotin (MP4-25D2) 14-7049 Anti-Human IL-4 Purified (8D4-8)

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