



RECOMBINANT HUMAN INTERLEUKIN-4

CATALOG NUMBER: IL004

LOT NUMBER:

QUANTITY: 10 µg

DESCRIPTION: Interleukin-4 (IL-4) is a potent lymphoid cell growth factor which stimulates the growth and survivability of certain B-cells and T-cells, recombinant human IL-4 is a 14.9 kDa protein containing 129 amino acid residues.

SOURCE: *E. coli*

PURITY: Greater than 98% by SDS-PAGE and HPLC analysis. Endotoxin level is less than 0.1 ng per µg (1EU/µg) of IL-4.

ACTIVITY: Human IL-4 is fully biologically active when compared to standards. The ED₅₀ as determined by the dose-dependent stimulation of human TF-1 cells is \leq 0.2 ng/mL, corresponding to a specific activity of $\geq 5 \times 10^6$ units/mg.

APPLICATIONS: For most *in vitro* applications, IL-4 exerts its biological activity in the concentration range of 0.1 to 10 ng/mL. Responding cells are (partial list): B-cells and certain T-cells.

PRESENTATION: Sterile filtered, lyophilized with no additives.

STORAGE/HANDLING: The lyophilized powder, though stable for a few weeks at room temperature, is best stored at -20°C for up to 12 months after date of receipt. After a quick spin, reconstitute with sterile water to a concentration of 0.1-1.0 mg/mL. This solution can be diluted into other buffered solutions and stored at 2-8°C for up to 1 week. For long term storage reconstituted IL-4 should be at -20°C in undiluted aliquots for up to six months.

Important Note: During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.

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PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION

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