



**RECOMBINANT
HUMAN
IL-4**

Catalog #02404 10 µg/vial

Catalog #02804 50 µg/vial

PRODUCT DESCRIPTION:

Interleukin-4 (IL-4) is a pleiotropic cytokine produced by activated T cells, mast cells and basophils. IL-4 stimulates the activation and differentiation of B cells as well as other hematopoietic and non-hematopoietic cells. Recombinant human IL-4 is a 14 kDa protein containing 130 amino acid residues.

SOURCE:

A DNA sequence encoding mature human IL-4 was expressed in *E. coli*.

PURITY:

Greater than 97% as determined by SDS-PAGE and visualized by silver stain. Endotoxin level is less than 0.1 ng per µg of the cytokine, as determined by the LAL method.

FORMULATION:

Lyophilized from a sterile-filtered solution in PBS containing 50 µg of bovine serum albumin per 1 µg of cytokine.

RECONSTITUTION:

It is recommended that sterile phosphate-buffered saline containing at least 0.1% human serum albumin or bovine serum albumin be added to the vial to prepare a stock solution of no less than 5 µg /mL of the cytokine.

STABILITY AND STORAGE:

The lyophilized powder is stable for greater than six months at -20°C to -70°C.

Reconstituted IL-4 can be stored under sterile conditions at 2°C to 4°C for one month or at -20°C to -70°C for three months without detectable loss of activity.

Avoid repeated freezing and thawing.

ACTIVITY:

The biological activity of human IL-4 was measured in a cell proliferation assay using the factor-dependent human cell line, TF-1. The ED₅₀ for this effect is typically 0.05 - 0.2 ng/mL.

See Material Safety Data Sheet for more information.

**THIS REAGENT IS FOR RESEARCH ONLY.
IT IS NOT TO BE ADMINISTERED TO HUMANS.**

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