



RECOMBINANT MOUSE INTERLEUKIN-4

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| CATALOG NUMBER: | IL016 |
| LOT NUMBER: | xxxxxxxxxxxx |
| QUANTITY: | 20 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. Mouse IL-4 is a 13.5 kDa protein containing 120 amino acid residues. |
| SOURCE: | <i>E. coli</i> |
| PURITY: | Greater than 98% by SDS-PAGE and HPLC analysis. Endotoxin level is less than 0.1 ng per µg of mouse IL-4. |
| ACTIVITY: | Recombinant mouse IL-4 is fully biologically active when compared to standards. The ED ₅₀ as determined by the dose-dependent proliferation of murine HT-2 cells is ≤ 2.0 ng/mL, corresponding to a specific activity of ≥ 5x10 ⁵ units/mg. |
| APPLICATIONS: | For most <i>in vitro</i> applications, mouse 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: | Lyophilized protein with no additives. |
| STORAGE/HANDLING: | The lyophilized powder, though stable at room temperature, is best stored at -20°C. Reconstitute with sterile water to a concentration of 0.1-1.0 mg/mL. This solution can be diluted into water or other buffered solutions and stored at 4°C for 1 week or at -20°C for future use. Reconstituted mouse IL-4 should be stored in undiluted aliquots at -20°C for up to 6 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.

FOR RESEARCH USE ONLY; NOT FOR USE IN DIAGNOSTIC
PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION

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