



RECOMBINANT HUMAN INTERLEUKIN-12

CATALOG NUMBER:

IL029

QUANTITY:

10 µg

LOT NUMBER:

DESCRIPTION:

Interleukin-12 (IL-12) is a potent regulator of cell mediated immune responses and it induces IFN-gamma production by NK and T cells. It is produced by activated monocytes/macrophage cells, B lymphocytes, and connective tissue type mast cells. Among its biological activities, IL-12 promotes the growth and activity of activated NK, CD4+ and CD8+ cells and induces the development of IFN-gamma producing Th1 cells. Human IL-12 is a disulfide linked heterodimeric protein with a molecular weight of 75 kDa comprised of disulfide-bonded 35 kDa (p35) and 40 kDa (p40) subunits.

SOURCE:

CHO cells (Chinese Hamster Ovarian cells)

PURITY:

Greater than 98% by SDS-PAGE and HPLC analyses. Endotoxin level is less than 0.1 ng per µg (1EU/ µg) of IL-12.

ACTIVITY:

The ED₅₀ as determined by the induction of IFN-γ production from NK cells co-stimulated with IL-18 was ≤ 1.0 ng/mL, corresponding to a specific activity of ≥ 1.0 x 10⁶ units/mg.

APPLICATIONS:

For most *in vitro* applications, IL-12 exerts its biological activity in the concentration range of 1.0 to 10.0 ng/mL.

PRESENTATION:

The sterile filtered solution was lyophilized from 0.5X PBS, pH 7.2

STORAGE/HANDLING:

The lyophilized IL-12, though stable at room temperature, is best stored desiccated at -20°C. We recommend a quick spin followed by reconstitution in 1X PBS pH 7.2-7.4 to a concentration of 0.2mg/mL. This solution can then be diluted into other aqueous buffers and stored at 4°C for 1 week or -20°C for future use. Reconstituted IL-12 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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