

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:	<i>E. coli</i>
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 ED ₅₀ as determined by the dose-dependent stimulation of human TF-1 cells is ≤ 0.2 ng/mL, corresponding to a specific activity of ≥ 5 x 10 ⁶ units/mg.
APPLICATIONS:	For most <i>in vitro</i> 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.

For research use only; not for use as a diagnostic.