

Recombinant Human IL-4

CATALOG NO:	4137-10	10 µg
	4137-50	50 µg
	4137-1000	1 mg
SOURCE:	<i>E. coli</i>	
PURITY:	>98% by SDS-PAGE	
MOL. WEIGHT:	15.0 kDa	
FORMULATION:	Sterile filtered and lyophilized with no additives	

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. The solution can then be diluted into other aqueous buffers and stored at 4° C for 1 week or -20° C for future use.

STORAGE CONDITIONS:

The lyophilized human IL-4 is best-stored desiccated below 0° C. Reconstituted IL-4 should be stored at working aliquots at -20° C.

DESCRIPTION:

IL-4 is a potent lymphoid cell growth factor that stimulates the growth and survivability of certain B cells and T cells. Human IL-4 is a 15.0 kDa globular protein containing 130 amino acid residues.

BIOLOGICAL ACTIVITY:

The EC₅₀ as determined by the dose-dependent stimulation of human TF-1 cells is ≤0.1 ng/ml, corresponding to a specific activity of ≥5 x 10⁶ units/mg.

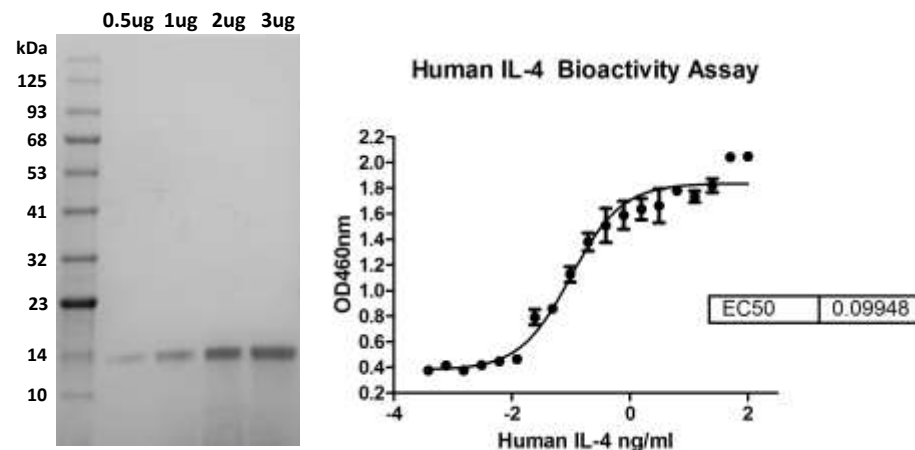


Fig. A. SDS-PAGE (4-20%) of recombinant human IL-4 (Left): Recombinant Protein loaded under reducing conditions and stained with Coomassie Blue. Lane M-MW marker, Lanes 2-4 IL-4

Fig. B. Biological activity of recombinant human IL-4 to stimulate TF-1 cell growth (Right): TF-1 cells were stimulated with human recombinant IL-4 for 36 hrs. and cell proliferation was measured using the BioVision Quick Cell Proliferation Colorimetric Assay Kit Plus (Cat. No. K302). EC₅₀ <0.1 mg/mL

RELATED PRODUCTS:

- Human CellExp™ IL-4, Human Recombinant (Cat. No. 6463)
- Human CellExp™ IL-4 Rα, Human Recombinant (Cat. No. 7101)
- IL-4, murine recombinant (Cat. No. 4138)
- IL-4, rat recombinant (Cat. No. 4139)
- IL-4 (Human) ELISA Kit (Cat. No. K4164)

FOR RESEARCH USE ONLY! Not to be used on humans.