

## PRODUCT INFORMATION SUMMARY

### Human IL 4

Purified Factor	Product Number	HC40020B	20.0 ug
	Product Number	HC40020A	5.0 ug

#### DESCRIPTION:

Human Interleukin-4 (IL 4) is a growth factor which acts to stimulate growth and survivability of certain T and B cells. IL-4 has been associated with elevated IgE production and allergy. Human IL 4 has a molecular weight of 14.9 kDa, with 129 aa. residues.

**SOURCE:** E. Coli  
Purity > 98% by HPLC analysis  
Endotoxin < 0.1 ng per ug IL 4

#### BIOLOGICAL ACTIVITY:

**Fully biologically active when compared to standards.**  
Specific activity of  $5 \times 10^6$  units/mg, as determined by dose dependent stimulation of human TF-1 cells.

**Range** of biologic activity: 0.1 - 10 ng/mL

#### HANDLING AND STORAGE:

Purified Human IL 4 factor is provided lyophilized. Store lyophilized, at  $-20^{\circ}$  C. Quick-spin prior to reconstitution with distilled water to a concentration of 100 ug/mL, dilute in PBS or other buffered solutions. Store small aliquots at  $-20^{\circ}$  C for long-term storage, **with addition of carrier protein, ie., 0.1% BSA**, for up to 3 months; at high concentration.

#### WARRANTY:

Products sold hereunder are warranted only to conform to the quantity and contents stated on the label at the time of delivery to the customer. There are no warranties, expressed or implied, which extend beyond the description on the label of the product.

**RESEARCH USE ONLY -NOT for DRUG USE**