

## PRODUCT INFORMATION SUMMARY

### Human IL-21

Purified Factor	Product Number	HC51215A	2.0 ug
	Product Number	HC51215B	10.0 ug

#### DESCRIPTION:

Human Interleukin-21 (IL-21) is produced primarily from activated CD4+ T cells and is involved in stimulation of immune responses. IL 21 induces differentiation of B cells into plasma cells, and memory B cells, and IgG production in presence of IL-4. IL-21 also enhances anti-tumor activity of NK cells and CD8+ T cells. Human IL-21 has molecular weight of 15.4 kDa, with 133 aa. residues.

**SOURCE:** E. Coli  
Purity > 98% by HPLC analysis  
Endotoxin < 0.1 ng per ug IL 21

**BIOLOGICAL ACTIVITY:** Half-maximal response in dose dependent stimulation of human PBMC is 5.0 ng/mL.

#### HANDLING AND STORAGE:

Purified Human IL-21 factor is provided lyophilized from 20mM Sodium Phosphate buffer ( pH 7.5). Store lyophilized, at -20° C. Reconstitute with **sterile or distilled water** to a concentration of 100 ug/mL, then further dilute in PBS or other buffered solutions (**pH 7.2**). Store small aliquots at -20° C, **with addition of 0.1% BSA,** for long-term storage up to 3 months, at high concentration.

**Microcentrifuge before reconstitution.** Because ANTIGENIX factors are provided without carrier proteins like sucrose or BSA, the small quantities of lyophilized protein can adhere to the sides and cap of the vial during manufacture. **Before opening the vial,** we recommend microcentrifuging for 30 seconds to spin-down all material.

#### 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**