

## 32-1490: IL 21 Recombinant Protein

**Alternative Name :** Za11,IL-21.

### Description

Source : Escherichia Coli. IL21 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 132 amino acids and having a total molecular mass of 15.4kDa. The IL-21 is purified by proprietary chromatographic techniques. IL-21 is produced by CD4+ T cells in response to antigenic stimulation. Its action enhances antigen-specific responses of immune cells. The biological effects of IL-21 include induction of differentiation of T-cells-stimulated B-cells into plasma cells and memory B-cells, stimulation (in conjunction) with IL-4 of IgG production, and induction of apoptotic effects in naive B-cells and stimulated B-cells in the absence of T-cell signaling. Additionally, IL-21 promotes the anti-tumor activity of CD8+ T-cells and NK cells. IL-21 exerts its effect through binding to a specific type I cytokine receptor, IL-21R, which also contains the gamma chain found in other cytokine receptors including IL-2, IL-4, IL-7, IL-9 and IL-15. The IL-21/IL-21R interaction triggers a cascade of events which includes activation of the tyrosine kinases JAK1 and JAK3, followed by activation of the transcription factors STAT1 and STAT3.

### Product Info

<b>Amount :</b>	10 µg
<b>Purification :</b>	Greater than 97.0% as determined by SDS-PAGE.
<b>Content :</b>	Lyophilized from PBS, pH 7.4.
<b>Storage condition :</b>	Lyophilized Interleukin-21 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL21 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
<b>Amino Acid :</b>	MQDRHMIRMRLQLDIVDQLK NYVNDLVPEFLPAPEDVETN CEWSAFSCFQ KAQLKSANTG NNERIINVSI KKLKRKPPST NAGRRQKHRL TCPCDSYEK KPPKEFLERF KLLQKMIHQ HSSRTHGSE DS.

### Application Note

It is recommended to reconstitute the lyophilized Interleukin -21 in sterile 18MΩ·cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions. Measured by its ability to proliferate activated B cells.

