

## Product datasheet for **TP721084XL**

### IL21 (NM\_021803) Human Recombinant Protein

#### Product data:

|                                       |   |
|---------------------------------------|---|
| Product Type:                         | Recombinant Proteins  |
| Description:                          | Purified recombinant protein of Human interleukin 21 (IL21), transcript variant 1   |
| Species:                              | Human   |
| Expression Host:                      | HEK293  |
| Expression cDNA Clone or AA Sequence: | Gln23-Ser155  |
| Tag:                                  | Tag Free  |
| Predicted MW:                         | 16.5 kDa  |
| Concentration:                        | lot specific  |
| Purity:                               | >95% as determined by SDS-PAGE and Coomassie blue staining  |
| Buffer:                               | Provided lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl   |
| Endotoxin:                            | Endotoxin level is < 0.1 ng/µg of protein (< 1 EU/µg)   |
| Reconstitution Method:                | Always centrifuge tubes before opening. Do not mix by vortex or pipetting. Dissolve the lyophilized protein in ddH <sub>2</sub> O. It is not recommended to reconstitute a concentration less than 100 µg/ml. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. |
| Storage:                              | Store at -80°C.   |
| Stability:                            | Stable for at least 6 months from date of receipt under proper storage and handling conditions.   |
| RefSeq:                               | <a href="#">NP_068575</a>   |
| Locus ID:                             | 59067   |
| UniProt ID:                           | <a href="#">Q9HBE4</a> , <a href="#">A0A224B028</a>   |
| RefSeq Size:                          | 642   |
| Cytogenetics:                         | 4q27  |
| RefSeq ORF:                           | 486   |
| Synonyms:                             | CVID11; IL-21; Za11   |



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**Summary:** This gene encodes a member of the common-gamma chain family of cytokines with immunoregulatory activity. The encoded protein plays a role in both the innate and adaptive immune responses by inducing the differentiation, proliferation and activity of multiple target cells including macrophages, natural killer cells, B cells and cytotoxic T cells. Dysregulation of this gene plays a role in multiple immune-mediated diseases including lupus, psoriasis and chronic inflammatory diseases. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2011]

**Protein Families:** Druggable Genome, Secreted Protein

**Protein Pathways:** Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway