# Active GMP Recombinant Human IL17A protein

**Cat. No.** IL17A-4331HG **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human IL17A was produced in E. coli using non-animal reagents in an animal-free facility under cGMP guidelines. |
| **Species** | Human |
| **Source** | E.coli |
| **Description** | Human Interleukin-17A (IL-17A) is encoded by the IL17A gene located on the chromosome 6 and belongs to the IL-17 family that contains IL-17A, IL-17B, IL-17C, IL-17D, IL-17E and IL-17F. They have a similar protein structure, with four highly conserved cysteine residues critical to their 3-dimensional shape, but no sequence similarity to any other known cytokines. Interleukin 17 is a T cell-expressed pleiotropic cytokine that exhibits a high degree of homology to a protein encoded by the ORF13 gene of herpesvirus Saimiri. Mature IL-17 containing one potential N-linked glycosylation site. Both recombinant and natural IL-17 have been shown to exist as disulfide linked homodimers. At the amino acid level, IL-17 exhibits 63 % amino acid identity with mouse IL-17. High levels of human IL-17 were induced from primary peripheral blood CD4+ T cells upon stimulation and they can induce stromal cells to produce proinflammatory and hematopoietic cytokines. |
| **Form** | Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4. |
| **Bio-activity** | Fully biologically active when compared to standard. The ED50 as determined by inducing IL-6 secretion of murine NIH/3T3 cells is less than 7.5 ng/ml, corresponding |

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| | to a specific activity of > 1.3 × 10^5 IU/mg. |
| **Molecular Mass** | Approximately 31.0 kDa, a disulfide-linked homodimer of two 132 amino acid polypeptide chains. |
| **AA Sequence** | GITIPRNPGCPNSEDKNFPRTVMVNLNIHNRNTNTNPKRSSDYYNRSTSPWNLHRN EDPERYPSVIWEAKCRHLGCINADGNVDYHMNSVPIQQEILVLRREPPHCPNSFRLE KILVSVGCTCVTPIVHHVA |
| **Endotoxin** | Less than 1 EU/μg of rHuIL-17 as determined by LAL method. |
| **Purity** | > 95 % by SDS-PAGE and HPLC analyses. |
| **Storage** | This lyophilized preparation is stable at 2-8 centigrade, but should be kept at -20 centigrade for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 centigrade. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 centigrade to -70 centigrade. Avoid repeated freeze/thaw cycles. |
| **Reconstitution** | Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 centigrade. Further dilutions should be made in appropriate buffered solutions. |
| **Quality Statement** | Our GMP proteins are produced according to relevant sections of the following documents: WHO TRS, No. 822, 1992 Annex 1, Good Manufacturing Practices for Biological Products; USP Chapter 1043, Ancillary Materials for Cell, Gene and Tissue-Engineered Products and USP Chapter 92, Growth Factors and Cytokines Used in Cell Therapy Manufacturing. |

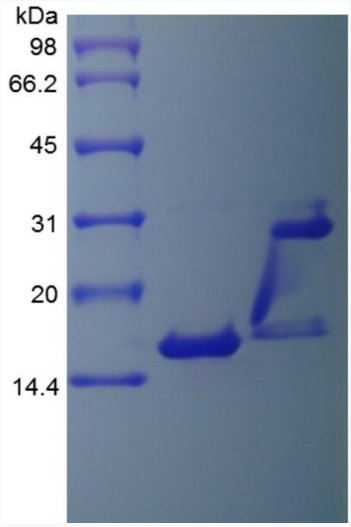
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| **Shipping** | The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature. |

## GENE INFORMATION

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| **Gene Name** | IL17A interleukin 17A [ Homo sapiens ] |
| **Official Symbol** | IL17A |
| **Synonyms** | IL17; CTLA8; IL-17; IL-17A; interleukin-17A; CTLA-8; cytotoxic T-lymphocyte-associated antigen 8; cytotoxic T-lymphocyte-associated protein 8; interleukin 17 (cytotoxic T-lymphocyte-associated serine esterase 8) |
| **Gene ID** | 3605 |
| **mRNA Refseq** | NM_002190 |
| **Protein Refseq** | NP_002181 |
| **MIM** | 603149 |
| **UniProt ID** | Q16552 |

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