

## Active Recombinant Human IL17A Protein (136 aa)

Cat. No. IL17A-1001 Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human IL17A Protein without tag was expressed in E. coli.

**Species** Human

**Source** E.coli

**ProteinLength** 136

#### Description

Interleukin 17 (also known as CTLA-8) 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. cDNA clones encoding IL-17 have been isolated from activated rat, mouse and human T cells. Human IL-17 cDNA encodes a 155 amino acid (aa) residue precursor protein with a 19 amino acid residue signal peptide that is cleaved to yield the 136 aa residue 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, human IL-17 shows 72% and 63% sequence identity with herpesvirus and rat IL-17, respectively. An IL-17 specific mouse cell surface receptor (IL-17 R) has recently been cloned. While the expression of IL-17 mRNA is restricted to activated T cells, the expression of mL-17 R mRNA has been detected in virtually all cells and tissues tested. IL-17 exhibits multiple biological activities on a variety of cells including the induction of IL-6 and IL-8 production in fibroblasts, the enhancement of surface expression of ICAM-1 in fibroblasts, activation of NF-κB and costimulation of T cell proliferation.

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<b>Form</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Bio-activity</b>	Fully biologically active when compared to standard. The ED50 as determined by the dose-dependent induction of IL-6 in primary human foreskin fibroblasts was found to be approximately 2 ng/mL, corresponding to a specific activity of $> 5 \times 10^5$ units/mg.
<b>Molecular Mass</b>	Approximately 31.0 kDa, disulfide-linked homodimer of two 136 amino acid polypeptide chains.
<b>AA Sequence</b>	MIVKAGITIPRNP GCPNSEDKNFRTVMVNLNIHNRNTNTNPKRSSDY YNRSTSPWN LHRNEDPERYP SVIWEAKCRHLGCINADGNVDYHMNSVPIQQEILVLRREPPHCPNS FRLEKILVSVGCTCVTPIVHHVA
<b>Endotoxin</b>	Less than 1 EU/mg of rHuIL-17 as determined by LAL method.
<b>Purity</b>	>95% by SDS-PAGE and HPLC analyses.
<b>Storage</b>	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 to -70 centigrade. Avoid repeated freeze/thaw cycles.
<b>Storage Buffer</b>	Lyophilized from a 0.2mm filtered concentrated solution in PBS, pH 7.4.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. 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.

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## GENE INFORMATION

**Gene Name** IL17A interleukin 17A [ Homo sapiens ]

**Official Symbol** IL17A

**Synonyms** IL17A; interleukin 17A; CTLA8, IL17, interleukin 17 (cytotoxic T lymphocyte associated serine esterase 8); interleukin-17A; cytotoxic T lymphocyte associated protein 8; IL 17; IL 17A; CTLA-8; cytotoxic T-lymphocyte-associated antigen 8; cytotoxic T-lymphocyte-associated protein 8; cytotoxic T-lymphocyte-associated serine esterase 8; interleukin 17 (cytotoxic T-lymphocyte-associated serine esterase 8); IL17; CTLA8; IL-17; IL-17A;

**Gene ID** 3605

**mRNA Refseq** NM\_002190

**Protein Refseq** NP\_002181

**MIM** 603149

**UniProt ID** Q16552

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