

## Active Recombinant Human Interleukin 17A

**Cat. No.** IL17A-113H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human Interleukin 17A encoding the human IL-17A protein sequence (containing the signalpeptide sequence, and the mature IL-17A sequence) was expressed in modified human293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	Interleukin-17 (IL-17) is a 155 amino acid protein that is a disulfide linked, homodimeric, secreted glycoprotein with one N-linked glycosylation site. IL-17 is also referred to as IL-17A. Other members include IL-17B, IL-17C, IL-17D, IL-17E and IL-17F. IL-17 binds to the cell surface receptor IL-17R. IL-17 is secreted by a subset of T cells called T-helper 17 (Th-17) cells. IL-23 is thought to mediate the production of IL-17 by Th-17 cells.
<b>Amino Acid Sequence</b>	GITIPRNPGCPNSEDKNFPRTVMVNLNIHNRNTNTNPKRSSDYYNRSTSPWNLHRN EDPERYPSVIWEAKCRHLGCINADGNVDYHMNSVPIQQEILVLRREPPHCPNSFRLE KILVSVGCTCVTPIVHHVA.
<b>Molecular Mass</b>	Under reducing conditions Apollo IL-17A hcx migrates as two bands at approximately 16 and 22 kDa on SDS-PAGE due to post-translational modifications.
<b>pI</b>	Apollo IL-17A hcx has a predicted pI of 8.62.
<b>Glycosylation</b>	Apollo IL-17A hcx contains N-linked oligosaccharides.

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<b>Purity</b>	>95%, as determined by SDS-PAGE, visualised by Coomassie Brilliant Blue.
<b>Formulation</b>	When reconstituted in 0.5 ml sterile phosphate-buffered saline, the solution will contain 1% human serum albumin (HSA) and 10% trehalose.
<b>Reconstitution</b>	It is recommended that 0.5 ml of sterile phosphate-buffered saline be added to the vial.
<b>Storage</b>	Lyophilized products should be stored at 2 to 8°C. Following reconstitution short-term storage at 4°C and longer-term storage of aliquots at -18 to -20°C is recommended. Repeated freeze thawing is not recommended.
<b>Activity</b>	The activity of IL-17A is measured by its ability to induce IL-6 production in NHDF cells. The ED <sub>50</sub> is typically between 0.5 and 1.5 ng/ml.

## GENE INFORMATION

<b>Gene Name</b>	17A interleukin 17A [ <a href="#">Homo sapiens</a> ]
<b>Synonyms</b>	IL17A; interleukin 17A; IL17; CTLA8; IL-17; IL-17A; toxic T-lymphocyte-associated antigen 8; ototoxic T-lymphocyte-associated protein 8; cytotoxic T-lymphocyte-associated serine esterase 8; interleukin 17 (cytotoxic T-lymphocyte-associated serine esterase 8)
<b>Gene ID</b>	<a href="#">3605</a>
<b>mRNA Refseq</b>	<a href="#">NM_002190</a>
<b>Protein Refseq</b>	<a href="#">NP_002181</a>
<b>UniProt ID</b>	<a href="#">Q16552</a>

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<b>Chromosome Location</b>	6p12
<b>MIM</b>	603149
<b>Pathway</b>	Cytokine-cytokine receptor interaction
<b>Function</b>	cytokine activity

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