Active Recombinant Human Interleukin 17A

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

SPECIFICATION

Product Overview	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 human*293 cells*.
Species	Human
Source	HEK293
Description	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 tothe cell surfacer 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.
Amino Acid Sequence	GITIPRNPGCPNSEDKNFPRTVMVNLNIHNRNTNTNPKRSSDYYNRSTSPWNLHRNEDPERYPSVIWEAKCRHLGCINADGNVDYHMNSVPIQQEILVLRREPPHCPNSFRLEKILVSVGCTCVTPIVHHVA.
Molecular Mass	Under reducing conditions Apollo IL-17A hcx migrates as two bands at approximately 16and 22 kDa on SDS-PAGE due to post-translational modifications.
pI	Apollo IL-17A hcx has a predicted pI of 8.62.
Glycosylation	Apollo IL-17A hcx contains N--linked oligosaccharides.

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

GENE INFORMATION

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

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Chromosome Location	6p12
MIM	603149
Pathway	Cytokine-cytokine receptor interaction
Function	cytokine activity

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