

Recombinant Human IL17A, His-tagged

Cat. No. IL17A-63H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human IL17A, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
Description	IL17A, also known as Interleukin 17, is a cytokine that acts as a potent mediator in delayed-type reactions by increasing chemokine production in various tissues to recruit monocytes and neutrophils to the site of inflammation. It is produced by T-helper cells and is induced by IL23 which results in destructive tissue damage in delayed-type reactions. This protein is a 155 amino acid protein that is a disulfide-linked, homodimeric, secreted glycoprotein with a molecular mass of 35kDa. The structure of IL17A consists of a signal peptide of 23 amino acids followed by a 123 aa chain region characteristic of the IL17 family. An N-linked glycosylation site on the protein was first identified after purification of the protein revealed two bands, one at 15kDa and another at 20kDa.
Form	Liquid. In phosphate buffered saline (pH 7.4) containing 20% glycerol, 1mM EDTA, 0.1mM PMSF.
Molecular Mass	15.9kDa (138aa) 13.5-28kDa (SDS-PAGE under reducing conditions.)
AA Sequence	GITIPRNP GC PNSEDKNFPR TVMVNLNIHN RNTNTNPKRS SDYYNRSTSP WNLHRNEDPE RYPSVIWEAK CRHLGCINAD GNV DYHMNSV PIQ QEILVLR

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REPPHCPNSF RLEKILVSVG CTCVTPIVHH VAHHHHHH

Endotoxin	< 1.0 eu per 1 microgram of protein (determined by lal)
Purity	>90% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.25mg/ml (determined by Bradford assay)

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

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UniProt ID	Q16552
Chromosome Location	6p12
Pathway	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; IL23-mediated signaling events, organism-specific biosystem; IL27-mediated signaling events, organism-specific biosystem; Rheumatoid arthritis, organism-specific biosystem; Rheumatoid arthritis, conserved biosystem;
Function	cytokine activity;

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