

Recombinant Human Interleukin-17

Cat. No. IL17A-26H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human IL-17 produced in <i>E.coli</i> is a 31.0kDa disulfide-linked homodimer of two 136 amino acid polypeptide chains.
Species	Human
Source	E.coli
Description	The originally described IL-17 protein, now known as IL-17A, is a homodimer of two 132 amino acid chains, secreted by activated T-cells that act on stromal cells to induce production of proinflammatory and hematopoietic bioactive molecules. Today, IL-17 represents a family of structurally-related cytokines that share a highly conserved C-terminal region but differ from one another in their N-terminal regions and in their distinct biological roles. The six known members of this family, IL-17A through IL-17F, are secreted as homodimers. IL-17A exhibits cross-species bioactivity between human and murine cells.
Purity	>95% as determined by SDS-PAGE.
Formulation	Sterile filtered lyophilized powder, with 20mM Citrate, 0.1M NaCl, pH4.5.
Specific Activity	The ED50 as determined by the dose-dependent induction of IL-6 in Hs68 cell line was found to be approximately 2ng/ml, corresponding to a specific activity of 5.0 x 10 ⁵ IU/mg.
Endotoxin	Less than 1 IEU/g determined by LAL test.

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Reconstitution It is recommended to reconstitute the lyophilized rHuIL-17 in sterile 18MΩ-H₂O containing at least 0.1% human serum albumin or bovine serum albumin to prepare a stock solution of no less than 100ug/ml of the cytokine.

Storage Lyophilized rHuIL-17 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution rHuIL-17 should be stored at 4°C between 2-7 days and for future use below -18°C. Aliquot to avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name [IL17A](#)

Synonyms IL17; CTLA-8; IL-17; IL-17A; Cytotoxic T-lymphocyte-associated antigen 8; Interleukin-17A, CTLA8; Interleukin-17APrecursor; IL17A; interleukin17A

Gene ID [3605](#)

mRNA Refseq [NM_002190](#)

Protein Refseq [NP_002181](#)

MIM [603149](#)

UniProt ID [Q16552](#)

Chromosome Location 6p12

Pathway Cytokine-cytokine receptor interaction

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Function

Induces stromal cells to produce proinflammatory and hematopoietic cytokines.
Enhances the surface expression of the intracellular adhesion molecule-1 (ICAM-1) in fibroblasts.