

Active Glycosylated Recombinant Human IL17A Homodimer

Cat. No. IL17A-048H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human interleukin-17A is a homodimer; each monomer contains 136 amino acids with a theoretical molecular weight of 15.5 kDa and includes glycosylation sites.
Species	Human
Source	Yeast
Description	This gene is a member of the IL-17 receptor family which includes five members (IL-17RA-E) and the encoded protein is a proinflammatory cytokine produced by activated T cells. IL-17A-mediated downstream pathways induce the production of inflammatory molecules, chemokines, antimicrobial peptides, and remodeling proteins. The encoded protein elicits crucial impacts on host defense, cell trafficking, immune modulation, and tissue repair, with a key role in the induction of innate immune defenses. This cytokine stimulates non-hematopoietic cells and promotes chemokine production thereby attracting myeloid cells to inflammatory sites. This cytokine also regulates the activities of NF-kappaB and mitogen-activated protein kinases and can stimulate the expression of IL6 and cyclooxygenase-2 (PTGS2/COX-2), as well as enhance the production of nitric oxide (NO). IL-17A plays a pivotal role in various infectious diseases, inflammatory and autoimmune disorders, and cancer. High levels of this cytokine are associated with several chronic inflammatory diseases including rheumatoid arthritis, psoriasis and multiple sclerosis. The lung damage induced by the severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is to a large extent, a result of the inflammatory response promoted by cytokines such as

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	IL17A.
Form	Sterile lyophilized powder
Molecular Mass	15-22 kDa (Monomer)
Bio-activity	Recombinant human IL-17A-induced IL-6 production in WISH cells is quantified using an IL-6 ELISA kit.
Endotoxin	<1 EU/μg determined by LAL.
Purity	≥97%
Storage	Lyophilized samples remain stable for 36 months from the date of manufacture when stored at –20 to –70 centigrade. After reconstitution, the cytokine can be kept for one month at 2–8 centigrade under sterile conditions or for three months at –20 to –70 centigrade in a manual-defrost freezer, without significant loss of activity. Avoid repeated freeze–thaw cycles.
Storage Buffer	This product is supplied as a sterile lyophilized powder in a buffer of 100 mM Gly, 100 mM NaCl, pH 3.0.
Reconstitution	Before opening the vial, centrifuge at 10, 000 rpm for 30–60 seconds, or at 3, 000 rpm for 5 minutes, then reconstitute with 0.2 mL of sterile water.

GENE INFORMATION

Gene Name	IL17A interleukin 17A [Homo sapiens (human)]
Official Symbol	IL17A

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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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