Active Recombinant Human IL17A Protein (142 aa), His-tagged

Cat. No. IL17A-254I **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Interleukin-17A (rhIL-17A) produced in CHO cells is a glycosylated homodimer chain containing 142 amino acids. A fully biologically active molecule, rhIL-17A has a molecular mass of around 14-22 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.
Species	Human
Source	CHO
ProteinLength	142
Description	Interleukin-17A (IL-17A),also known as CTLA-8 and IL-17, is a proinflammatory cytokine belonging to the IL-17 family. It is secreted by Th17 cells, gamma/delta T cells, NK cells and neutrophils. IL-17A signals through IL-17 receptor A in a complex with receptor C or D to regulate NF-kappaB and MAP kinase activities. IL-17A plays important roles in the anti-microbial response and chronic inflammation. It stimulates the production of IL-6, IL-8 and G-CSF in epithelial and endothelial cells, and induces the expression of ICAM-1 in fibroblasts. Clinically, IL-17A has been associated with inflammatory diseases, such as rheumatoid arthritis, psoriasis and multiple sclerosis.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 0.3 ng/mL, measured in a bioassay using NHDF cells, corresponding to a specific activity of > 3.3 × 10^6 units/mg.

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Molecular Mass	14-22 kDa, observed by reducing SDS-PAGE.
AA Sequence	GITIPRNPGCPNSEDKNFPRTVMVNLNIHNRNTNTNPKRSSDYYNRSTSPWNLHRN EDPERYPSVIWEAKCRHLGCINADGNVDYHMNSVPIQQEILVLRREPPHCPNSFRLE KILVSVGCTCVTPIVHHVAHHHHHH
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% as analyzed by SDS-PAGE.
Storage	Lyophilized recombinant humanInterleukin-17A (IL-17A), His remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, human Interleukin-17A (IL-17A), His should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH2O or PBS at 100 μg/mL.

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;

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Gene ID	3605
mRNA Refseq	NM_002190
Protein Refseq	NP_002181
MIM	603149
UniProt ID	Q16552

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