

Active Recombinant Human IL17A/IL17F Protein, Biotinylated

Cat. No. IL17A&IL17F-165H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant Human IL17A(Gly24-Ala155)/IL17F(Arg21-GLN163) was expressed in CHO, Biotinylated.

Species

Human

Source

CHO

ProteinLength

IL17A(Gly24-Ala155)/IL17F(Arg21-GLN163)

Description

Human IL-17A/F is an approximately 40 kDa, secreted, disulfide-linked heterodimeric glycoprotein comprised of two members of the IL-17 family of cytokines, IL-17A and IL-17F. Members of this family demonstrate a structural motif termed a cysteine knot that also characterizes a large superfamily of growth factors. Although most cysteine knot superfamily members use three intrachain disulfide bonds to create a knot, IL-17 family molecules generate the same structural form with only two disulfide links. Mature human IL-17A and IL-17F share 61% and 56% amino acid sequence identity with mouse IL-17A and IL-17F, respectively. They share 50% aa sequence identity with each other. IL-17A/F and the IL-17A and IL-17F homodimers are produced by IL-23 activated Th17 cells. The widely expressed receptors IL-17 RA and IL-17 RC form a heterodimer for the binding of IL-17A and IL-17F, as well as the heterodimeric IL-17A/F. IL-17A/F is a biologically active protein that induces chemokine production and airway neutrophilia with intermediate potency between IL-17A (most potent) and IL-17F (least potent). It is up-regulated in immune cells during inflammatory arthritis and contributes to disease severity.

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Predicted N Terminal	Gly24(IL-17A) & Arg21(IL-17F)
Form	Lyophilized from a 0.2 µm filtered solution in HCl with BSA as a carrier protein.
Bio-activity	Measured by its ability to induce IL-6 secretion by NIH-3T3 mouse embryonic fibroblast cells. The ED50 for this effect is 0.4-2 ng/mL.
Molecular Mass	15 kDa (unlabeled IL-17A), 15 kDa (unlabeled IL-17F)
Endotoxin	<1.0 EU per 1 µg of the protein by the LAL method.
Purity	>90%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Notes	Structure / Form: Disulfide-linked heterodimer, Biotinylated via sugars
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile
Reconstitution	Reconstitute at 100 µg/mL in 4 mM HCl containing at least 0.1% human or bovine serum albumin
Conjugation	Biotin
GENE INFORMATION	
Gene Name	IL17A interleukin 17A [Homo sapiens]
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