

Active Recombinant Human IL-17AF Heterodimer Protein

Cat. No. IL17A-138H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL-17AF Heterodimer Protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	Interleukin 17AF (IL-17AF) is a heterodimer that is composed of the interleukin 17A (IL-17A) and interleukin 17F (IL-17F) members of the IL-17 family of cytokines. IL-17AF is produced by T helper 17 cells (Th17) following interleukin 23 (IL-23) stimulation. IL-17AF signals through the IL-17RA/IL-17RC receptor complex and functions to regulate inflammatory responses. IL-17AF induces chemokine and airway neutrophilia production, similar in function to IL-17A and IL-17F homodimers. In regard to these functions, IL-17AF is less active than the IL-17A homodimer and shows greater activity than the IL-17F homodimer. Human and rat IL-17AF are active on mouse cells.
Bio-activity	Production of IL-6 from mouse 3T3 cells, ≤50 ng/mL; ≥2.0 x 10 ⁴ units/mg
Molecular Mass	Dimer, 30.7 kDa (IL-17A=137; IL-17F=134; Total=271 aa)
AA Sequence	IL-17A: MIVKAGITIPRNP GCPNSEDKNFPRTVMVNLNIHNRNTNTNPKRSSDYNNRS TSPWNLHRNEDPERYP SVIWEAKCRHLGCINADGNVDYHMNSVPIQQEILVLRREP PHCPNSFRLEKILVSVGCTCVTPIVHHVA IL-17F: MRKIPKVGHTFFQKPESC PVPGGSMKLDIGIINENQRVSM SRNIESRSTSP

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	WNYTVTWDPNRYPSSEVVQAQCRNLGCINAQGKEDISMNSVPIQQETLVVRRKHQG CSVSFQLEKVLVTVGCTCVTPVIHHVQ
Endotoxin	≤1 EUs/μg, Kinetic LAL
Purity	≥95%, Reducing and Non-Reducing SDS PAGE
Stability	12 months from date of receipt when stored at -20 to -80 centigrade as supplied. 1 month when stored at 4 centigrade after reconstituting as directed. 3 months when stored at -20 to -80 centigrade after reconstituting as directed.
Storage	Storage Prior to Reconstitution: -20 centigrade
Storage Buffer	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)
Reconstitution	Sterile water at 0.1 mg/mL
Shipping	Room temperature
Instructions	Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80 centigrade and avoid repeat freeze thaws.

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