

Active Recombinant Human Interleukin 17F

Cat. No. IL17F-114H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Interleukin 17F encoding the human IL-17F protein sequence (containing the signalpeptide sequence, and the mature IL-17F sequence) was expressed in modified <i>human 293 cells</i> .
Species	Human
Source	HEK293
Description	Interleukin-17 (IL-17) is a 155 amino acid protein that is a disulfide linked, homodimeric, secreted glycoprotein with one N-linked glycosylation site. IL-17 is also referred to as IL-17A. Other members include IL-17B, IL-17C, IL-17D, IL-17E and IL-17F. IL-17 binds to the cell surface receptor IL-17R. IL-17 is secreted by a subset of T cells called T-helper 17 (Th-17) cells. IL-23 is thought to mediate the production of IL-17 by Th-17 cells.
Amino Acid Sequence	RKIPKVGHTFFQKPESCPPVPGGSMKLDIGIINENQRVSMRNIESRSTSPWNYTVT WDPNRYPSSEVVQAQCRNLGCINAQGKEDISMNSVPIQQETLVVRRKHQGCSVSFQ LEKVLVTVGCTCVTPVIHHVQ.
Molecular Mass	Under reducing conditions Apollo IL-17F hcx migrates as a broad band between 17 and 21 kDa on SDS-PAGE due to post-translational modifications, in particular glycosylation. This compares with unmodified IL-17F polypeptide that has a predicted monomeric molecular mass of 14.9 kDa.
pI	Apollo IL-17F hcx separates into a number of glycoforms with a pI between 6.2 and

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

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	9.5 on 2D PAGE due to post-translational modifications, in particular glycosylation. This compares with the unmodified IL-17F that has a predicted pI of 9.04.
% Carbohydrate	Apollo purified IL-17F hcx consists of 20-35% carbohydrate by weight.
Glycosylation	Apollo IL-17F hcx contains N-linked oligosaccharides.
Purity	>95%, as determined by SDS-PAGE, visualised by Coomassie Brilliant Blue.
Formulation	When reconstituted in 0.5 ml sterile phosphate-buffered saline, the solution will contain 1% human serum albumin (HSA) and 10% trehalose.
Reconstitution	It is recommended that 0.5 ml of sterile phosphate-buffered saline be added to the vial.
Storage	Lyophilized products should be stored at 2 to 8°C. Following reconstitution short-term storage at 4°C and longer-term storage of aliquots at -18 to -20°C is recommended. Repeated freeze thawing is not recommended.
Activity	The activity of IL-17F is measured by its ability to induce IL-6 production in NHDF cells. The ED ₅₀ is typically between 0.04 and 0.1 ng/ml.

GENE INFORMATION

Gene Name	IL17F interleukin 17F [Homo sapiens]
Synonyms	IL17F; interleukin 17F; ML1; ML-1; IL-17F; cytokine ML-1; Interleukin-24; leukin-17F
Gene ID	112744
mRNA Refseq	NM_052872

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Protein Refseq	NP_443104
UniProt ID	Q96PD4
Chromosome Location	6p12
MIM	606496
Function	cytokine activity; cytokine binding; protein homodimerization activity

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