

## Active Recombinant Human Interleukin 17F

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

### SPECIFICATION

<b>Product Overview</b>	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> .
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	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.
<b>Amino Acid Sequence</b>	RKIPKVGHTFFQKPESCPPVPGGSMKLDIGIINENQRVSMRNIESRSTSPWNYTVT WDPNRYPSEVVQAQCRNLGCINAQGGKEDISMNSVPIQQETLVVRRKHQGCSVSFQ LEKVLVTVGCTCVTPVIHHVQ.
<b>Molecular Mass</b>	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.
<b>pI</b>	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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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

	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.
<b>% Carbohydrate</b>	Apollo purified IL-17F hcx consists of 20-35% carbohydrate by weight.
<b>Glycosylation</b>	Apollo IL-17F hcx contains N-linked oligosaccharides.
<b>Purity</b>	>95%, as determined by SDS-PAGE, visualised by Coomassie Brilliant Blue.
<b>Formulation</b>	When reconstituted in 0.5 ml sterile phosphate-buffered saline, the solution will contain 1% human serum albumin (HSA) and 10% trehalose.
<b>Reconstitution</b>	It is recommended that 0.5 ml of sterile phosphate-buffered saline be added to the vial.
<b>Storage</b>	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.
<b>Activity</b>	The activity of IL-17F is measured by its ability to induce IL-6 production in NHDF cells. The ED <sub>50</sub> is typically between 0.04 and 0.1 ng/ml.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">IL17F interleukin 17F [ Homo sapiens ]</a>
<b>Synonyms</b>	IL17F; interleukin 17F; ML1; ML-1; IL-17F; cytokine ML-1; Interleukin-24; leikin-17F
<b>Gene ID</b>	<a href="#">112744</a>
<b>mRNA Refseq</b>	<a href="#">NM_052872</a>

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

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