

# 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<br>WDPNRYPPSEVVQAQCRNLGCINAQGKEDISMNSVPIQQETLVVRRKHQGCSVSFQ<br>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>   | IL17F interleukin 17F [ Homo sapiens ]                                               |
| <b>Synonyms</b>    | IL17F; interleukin 17F; ML1; ML-1; IL-17F; cytokine ML-1; Interleukin-24; leikin-17F |
| <b>Gene ID</b>     | 112744                                                                               |
| <b>mRNA Refseq</b> | NM_052872                                                                            |

 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

|                            |                                                                        |
|----------------------------|------------------------------------------------------------------------|
| <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 |

 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