

## Active Recombinant Human IL17F Protein (133 aa)

**Cat. No.** IL17F-099I    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human IL17F Protein without tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>ProteinLength</b>    | 133                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | Human IL-17F is synthesized as a 153 aa precursor with a 20 aa signal sequence and a 133 aa mature region. Like IL-17A, IL-17F contains one potential site for N-linked glycosylation. IL-17A and IL-17F share 50% aa sequence identity. IL17-F homodimer is produced by an activated subset of CD4+ T cells, termed Th17. IL17-F has been shown to stimulate proliferation and activation of T-cells and PBMCs. IL-17F also regulates cartilage matrix turnover and inhibits angiogenesis. |
| <b>Form</b>             | Sterile Filtered White lyophilized (freeze-dried) powder.                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Bio-activity</b>     | Measured by its ability to induce IL-6 production by NHDF cells, it's fully biologically active when compared to standard.                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Molecular Mass</b>   | A disulfide-linked homodimer of 30.1kDa, consisting of two 133 amino acid polypeptide chains.                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>AA Sequence</b>      | MRKIPKVGHTFFQKPESCPPVPGGSMKLDIGIINENQRVSMRNIESRSTSPWNYTV<br>TWDPNRYPSEVVQAQCRNLGCINAQGKEDISMNSVPIQQETLVVRRKHQGCVSF                                                                                                                                                                                                                                                                                                                                                                          |

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|                       |                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | QLEKVLVTVGCTCVTPVIHHVQ                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Endotoxin</b>      | Less than 1 EU/μg of rHuIL-17F as determined by LAL method.                                                                                                                                                                                                                                                                                                                                                     |
| <b>Purity</b>         | >95% by SDS-PAGE and HPLC analyses.                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Storage</b>        | This lyophilized preparation is stable for several weeks at 2-8 centigrade, but should be kept at -20 centigrade for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 centigrade. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 to -70 centigrade. Avoid repeated freeze/thaw cycles. |
| <b>Storage Buffer</b> | Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4.                                                                                                                                                                                                                                                                                                                                        |
| <b>Reconstitution</b> | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in 4 mM HCl to a concentration of 0.1mg/ml. Stock solutions should be apportioned into working aliquots and stored at < -20C. Further dilutions should be made in appropriate buffered solutions.                                                                                         |

## GENE INFORMATION

|                        |                                                                                                                                        |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | IL17F interleukin 17F [ Homo sapiens ]                                                                                                 |
| <b>Official Symbol</b> | IL17F                                                                                                                                  |
| <b>Synonyms</b>        | IL17F; interleukin 17F; interleukin-17F; IL 17F; ML 1; ML1; IL-24; cytokine ML-1; mutant IL-17F; interleukin-24; ML-1; CANDF6; IL-17F; |
| <b>Gene ID</b>         | 112744                                                                                                                                 |
| <b>mRNA Refseq</b>     | NM_052872                                                                                                                              |

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|                |                           |
|----------------|---------------------------|
| Protein Refseq | <a href="#">NP_443104</a> |
| MIM            | <a href="#">606496</a>    |
| UniProt ID     | <a href="#">Q96PD4</a>    |

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