# Active Recombinant Human IL17F

**Cat. No.** IL17F-509H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human IL-17F /IL-24 Protein, HEK293 Expressed (rhIL17F) Arg 31 - Gln 163 (Accession # AAH70124.1) was produced in human 293 cells (HEK293). |
| **Species** | Human |
| **Source** | HEK293 |
| **ProteinLength** | 31-163 a.a. |
| **Description** | Interleukin-17F (IL17F) also known as Interleukin-24 (IL24), Cytokine ML-1, is a secreted disulfide-linked homodimer which belongs to the IL-17 family. There are at least six members of the IL-17 family in humans and in mice: IL-17A, IL-17B, IL-17C, IL-17D, IL-17E (also called IL-25) and IL-17F (also called IL-24). IL-17 represents a family of structurally related cytokines that share a highly conserved C-terminal region but differ from one another in their N-terminal regions and in their distinct biological roles. IL-17F / IL-24 is expressed in activated, but not resting, CD4+ T-cells and activated monocytes. IL17F / Interleukin-24 stimulates the production of other cytokines such as IL-6, IL-8 and granulocyte colony-stimulating factor, and can regulate cartilage matrix turnover. IL17F / IL-24 stimulates PBMC and T-cell proliferation and Inhibits angiogenesis. Defects in IL17F are the cause of familial candidiasis type 6 (CANDF6). |
| **Predicted N Terminal** | Arg 31 |
| **Form** | Lyophilized from 0.22 |

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| | μm filtered solution in PBS, pH7.4. Normally Mannitol or Trehalose are added as protectants before lyophilization. |
| **Bio-activity** | The specific activity was determined by the dose-dependent induction of IL-6 secretion from NDHF Adult fibroblasts. The ED50 for this effect is typically 100 to 500 ng/ml. |
| **Molecular Mass** | rhIL17F, contains no "tag", has a calculated MW of 15.5 kDa. DTT-reduced Protein migrates as 21 kDa due to glycosylation. |
| **Endotoxin** | Less than 1.0 EU per μg of the rhIL17F by the LAL method. |
| **Purity** | >95% as determined by SDS-PAGE. |
| **Storage** | Avoid repeated freeze-thaw cycles. No activity loss was observed after storage at: In?lyophilized state?for?1 year?(4 centigrade-8 centigrade); Afterreconstitution?under sterile conditions for?1 month?(4 centigrade-8 centigrade) or?3 months?(-20 centigrade to -70 centigrade). |

## GENE INFORMATION

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| **Gene Name** | IL17F interleukin 17F [ Homo sapiens ] |
| **Official Symbol** | IL17F |
| **Synonyms** | 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; |
| **Gene ID** | 112744 |
| **mRNA Refseq** | NM_052872 |

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| **Protein Refseq** | NP_443104 |
| **MIM** | 606496 |
| **UniProt ID** | Q96PD4 |
| **Chromosome Location** | 6p12 |
| **Pathway** | IL23-mediated signaling events, organism-specific biosystem; |
| **Function** | cytokine activity; cytokine binding; protein homodimerization activity; |

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