

Active Recombinant Human IL17F

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

SPECIFICATION

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	<p>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).</p>
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); After reconstitution under sterile conditions for 1 month (4 centigrade-8 centigrade) or 3 months (-20 centigrade to -70 centigrade).

GENE INFORMATION

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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