

IL-17F Protein, Human, Recombinant (His)

General Information

Synonyms:	IL17F;IL-17F;Cytokine ML-1;Interleukin-17F
Protein Construction:	Arg31-Gln163
Species:	Human
Expression Host:	HEK293 Cells
Accession:	AAH70124.1
Molecular Weight:	19 KDa (reducing condition)
AA Sequence:	Arg31-Gln163

QC Testing

Biological Activity:	1. Loaded Biotinylated Human IL-17RA-His-Avi on SA Biosensor, can bind Human IL-17F -His with an affinity constant of 81.3 nM as determined in BLI assay. (Regularly tested) 2. Immobilized Mouse IL-17RA-Fc at 1µg/ml (100 µl/well)can bind Human IL-17F-His. The ED50 of Human IL-17F-His is 47.94 ng/ml. (Regularly tested)
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/µg (1 EU/µg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing 20 mM PB, 150 mM NaCl, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Interleukin-17F (IL-17F) exists in a disulfide-linked heterodimer that belongs to the IL-17 family. IL-17F is expressed in activated, but not resting, CD4+ T-cells and activated monocytes. IL-17F has been shown to stimulate the production of several other cytokines, including IL-6, IL-8, and granulocyte colony-stimulating factor. IL-17F

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can regulate cartilage matrix turnover and stimulates PBMC and T-cell proliferation. IL-17F is also found to inhibit the angiogenesis of endothelial cells and induce endothelial cells to produce IL2, TGFB1/TGFB, and monocyte chemoattractant protein-1. Defects in IL-17F are the cause of familial candidiasis type 6 (CANDF6).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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