

IL-17F Protein, Human, Recombinant

General Information

Synonyms:	IL17F;IL-17F;Interleukin-17F;Cytokine ML-1
Protein Construction:	Arg31-Gln163
Species:	Human
Expression Host:	E. coli
Accession:	Q96PD4
Molecular Weight:	15 KDa (reducing condition)
AA Sequence:	Arg31-Gln163

QC Testing

Biological Activity:	<ol style="list-style-type: none">1. Loaded Biotinylated Human IL-17RA-His-Avi on HIS1K Biosensor, can bind Human IL-17F with an affinity constant of 0.56 μM nM as determined in BLI assay. (Regularly tested)2. Measured by its ability to induce IL-6 secretion by NIH-3T3 mouse embryonic fibroblast cells. The ED50 for this effect is 5-40 ng/ml. (QC verified)3. Immobilized Human IL-17F at 2$\mu\text{g}/\text{ml}$ (100 $\mu\text{l}/\text{well}$) can bind Biotinylated Human IL-17RA-His-Avi. The ED50 of Biotinylated Human IL-17RA-His-Avi is 0.11 $\mu\text{g}/\text{ml}$. (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, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 $\mu\text{g}/\text{ml}$. 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-17 is a potent pro-inflammatory cytokine produced by activated memory T cells. There are at least six

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members of the IL-17 family in humans and in mice. Today, 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. The six known members of this family, IL-17A through IL-17F, are secreted as homodimers. IL-17F also regulates cartilage matrix turnover and inhibits angiogenesis.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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