# Human IL-17A&IL-17F Heterodimer Protein, Twin Strep&His Tag

Catalog # ILF-H52W6AI2

## Application

Human IL-17A&IL-17F Heterodimer Protein, Twin Strep&His Tag AIDD-Ready protein is designed for direct use in SPR assays. It is supplied in a sugar-free, glycerol-free formulation to eliminate refractive index interference in SPR. No desalting or buffer exchange is required before use, simplifying the SPR workflow. Each tube features a unique barcode and bottom code for precise sample identification, supporting automated, high-throughput workflows and accelerating the transition from AI prediction to wet-lab validation.

## Features and Advantages

- **Directly compatible with SPR:** No desalting or buffer exchange required; supplied as a liquid to reduce sample preparation and improve experimental efficiency.
- **High batch-to-batch consistency:** Each lot is released using SPR QC to ensure experimental reproducibility.
- **Validated with representative drugs:** SPR binding activity is validated using representative drug antibodies to ensure suitability for drug screening and evaluation.
- **Unique Tube Identification:** Each tube features a unique barcode and bottom code, supporting automated and high-throughput workflows. To request the product manifest, please contact our Technical Support team or click the button below.

## Synonyms

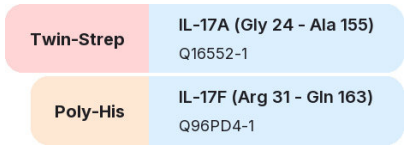
IL-17A, Interleukin-17A, CTLA-8, IL-17, IL-17F, Interleukin-17F, Cytokine ML-1, IL17A&IL17F

## Source

Human IL-17A&IL-17F Heterodimer Protein, Twin Strep&His Tag (ILF-H52W6AI2) is expressed from human 293 cells (HEK293). It contains AA Gly 24 - Ala 155 (IL-17A) & Arg 31 - Gln 163 (IL-17F) (Accession # Q16552-1 (IL-17A) & Q96PD4-1 (IL-17F)).

Predicted N-terminus: Trp (IL-17A) & His (IL-17F)

## Molecular Characterization




The protein has a calculated MW of 18.5 kDa (IL-17A) & 16.8 kDa (IL-17F). The protein migrates as 17-20 kDa and 22-25 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Purity

>90% as determined by SDS-PAGE.

>95% as determined by SEC-HPLC.

## Formulation

Formulated in a proprietary trehalose-free buffer, supplied ready-to-use for SPR/BLI analysis - no buffer exchange required.

For detailed formulation, please refer to the batch-specific COA.

## Shipping and Storage

This product is supplied and shipped on dry ice.

**Please avoid repeated freeze-thaw cycles.**

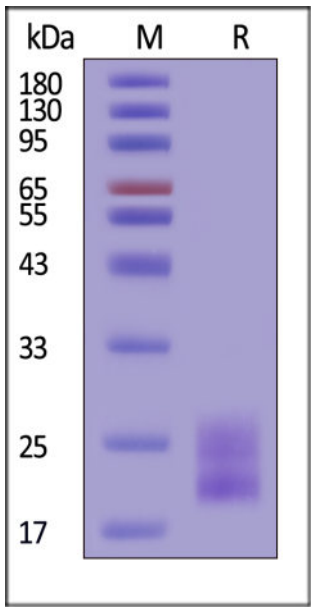
This product is stable after storage at:

- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 12 months under sterile conditions.

## ACRO Quality Management System

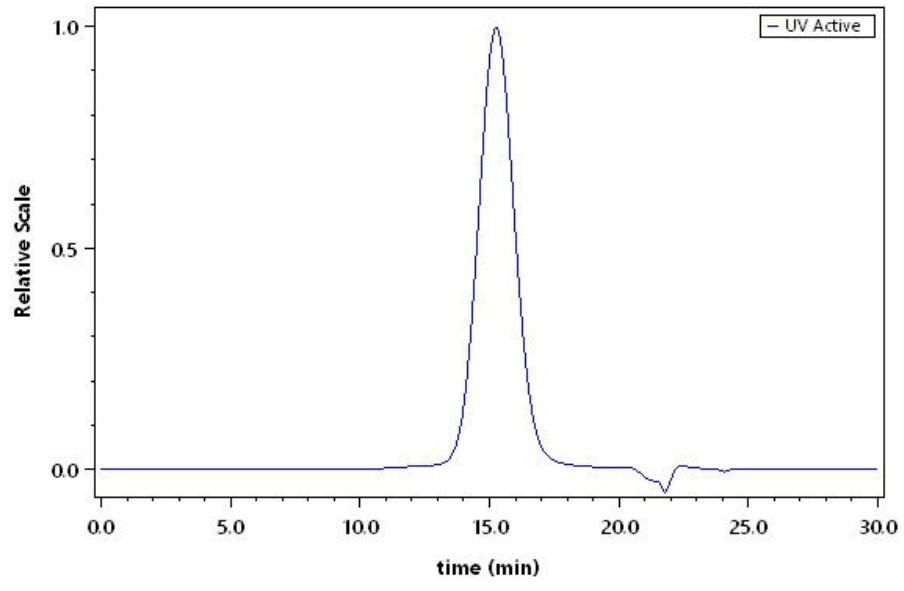
- QMS(ISO, GMP)
- Quality Advantages
- Quality Control Process

## SDS-PAGE



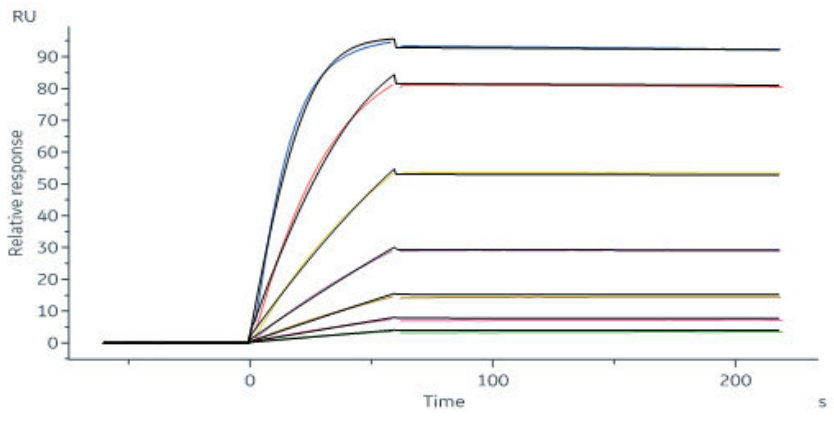

Human IL-17A&IL-17F Heterodimer Protein, Twin Strep&His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With Star Ribbon Pre-stained Protein Marker).

## SEC-HPLC




The purity of Human IL-17A&IL-17F Heterodimer Protein, Twin Strep&His Tag (Cat. No. ILF-H52W6AI2) was greater than 95% as determined by SEC-HPLC.

## Activity-SPR




Bimekizumab captured on Protein A Chip can bind Human IL-17A&IL-17F Heterodimer Protein, His Tag (Cat. No. ILF-H52W6AI2) with an affinity constant of 11.0 pM as determined in a SPR assay (Biacore 8K) (QC tested).

## Background

Interleukin-17A (IL17A) is also known as cytotoxic T-lymphocyte-associated antigen 8 (CTLA8),which is a proinflammatory cytokine produced by activated T cells. IL17A can regulate the activities of NF-kappaB and mitogen-activated protein kinases. Also,IL17A can stimulate the expression of IL6 and cyclooxygenase-2 (PTGS2/COX-2), as well as enhance the production of nitric oxide (NO).Furthermore,IL17A has been found both in glycosylated and nonglycosylated forms. High levels of IL-17 are associated with several chronic inflammatory diseases including rheumatoid arthritis, psoriasis and multiple sclerosis.

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