

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

Catalog # ILF-H52W6AI



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 and supporting high-throughput experimental validation to accelerate 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.

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-H52W6AI) 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

Twin-Strep	IL-17A (Gly 24 - Ala 155) Q16552-1
Poly-His	IL-17F (Arg 31 - Gln 163) Q96PD4-1

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.

The protein is designed as a heterodimer.

Purity

>90% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

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.

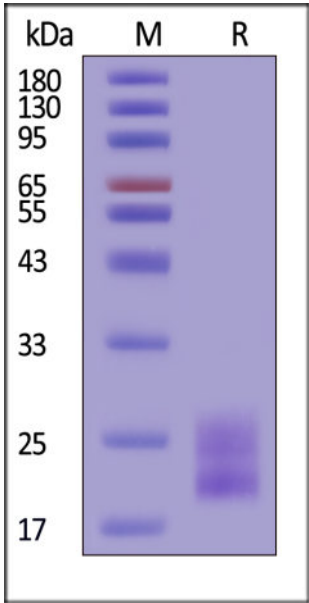
This product is stable after storage at:

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

ACRO Quality Management System

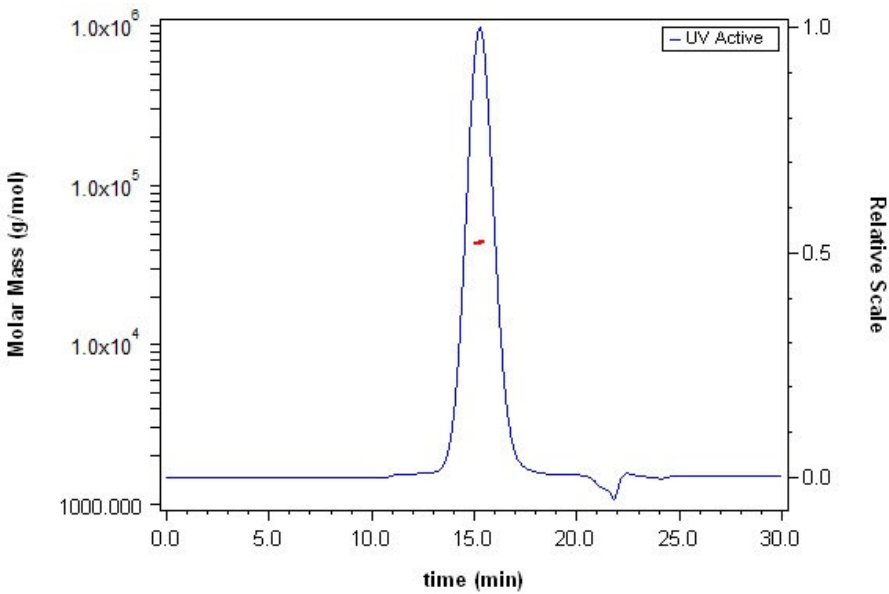
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



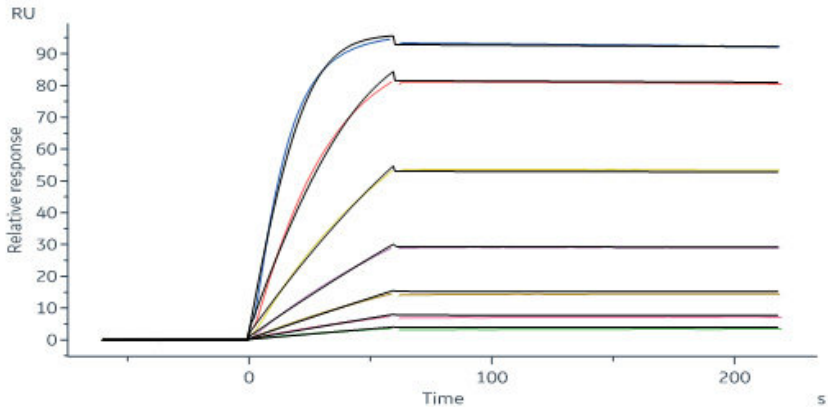
Human IL-17A&IL-17F Heterodimer Protein, Twin Strep&His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Human IL-17A&IL-17F Heterodimer Protein, Twin Strep&His Tag (Cat. No. ILF-H52W6AI) is more than 95% and the molecular weight of this protein is around 35-52 kDa verified by SEC-MALS.

Activity-SPR



Bimekizumab captured on Protein A Chip can bind Human IL-17A&IL-17F Heterodimer Protein, His Tag (Cat. No. ILF-H52W6AI) 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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