

Biotinylated Human IL-17F Protein

Cat. No. ILF-HM417B

Description

Source	Recombinant Biotinylated Human IL-17F Protein is expressed from HEK293 with His tag and Avi tag at the N-terminus. It contains Arg31-Gln163.
Accession	Q96PD4
Molecular Weight	The protein has a predicted MW of 17.81 kDa. Due to glycosylation, the protein migrates to 25-30 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

The Interleukin 17 (IL-17) family proteins, comprising six members (IL-17A through IL-17F), are secreted, structurally related proteins that share a conserved cystine-knot fold near the C-terminus, but have considerable sequence divergence at the N-terminus. IL-17F is ligand for IL17RA and IL17RC. The heterodimer formed by IL17A and IL17F is a ligand for the heterodimeric complex formed by IL17RA and IL17RC. Involved in stimulating the production of other cytokines such as IL6, IL8 and CSF2, and in regulation of cartilage matrix turnover.

Assay Data

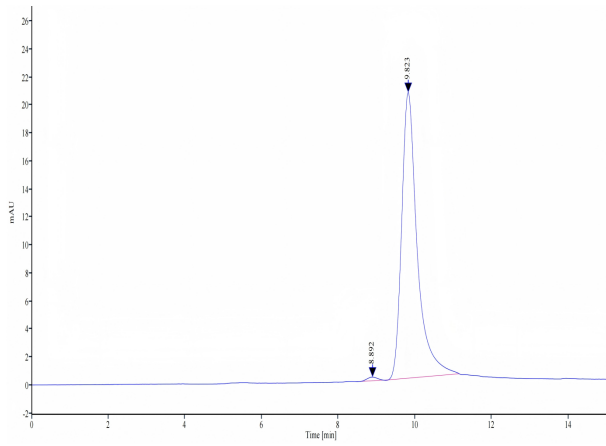
Bis-Tris PAGE



Biotinylated Human IL-17F on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Assay Data



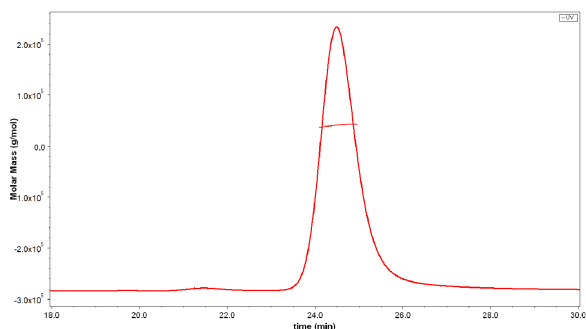
The purity of Biotinylated Human IL-17F is greater than 95% as determined by SEC-HPLC.

Biotinylated Human IL-17F Protein

Cat. No. ILF-HM417B

Assay Data

SEC-MALS

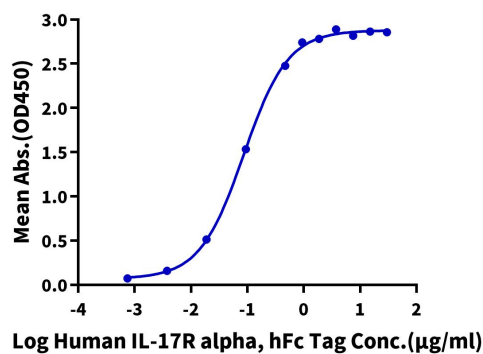


The purity of Biotinylated Human IL-17F is greater than 95% and the molecular weight of this protein is around 35-50 kDa as determined by SEC-MALS.

ELISA Data

Biotinylated Human IL-17F, His Avi Tag ELISA

0.2µg Biotinylated Human IL-17F, His Avi Tag Per Well

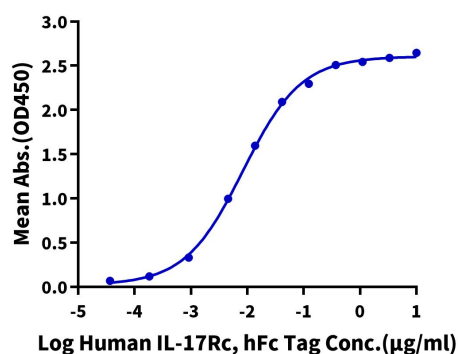


Immobilized Biotinylated Human IL-17F, His Avi Tag at 0.5µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Human IL-17R alpha, hFc Tag (Cat.CD7-HM2RA) with the EC50 of 86.4ng/ml determined by ELISA.

ELISA Data

Biotinylated Human IL-17F, His Avi Tag ELISA

0.1µg Biotinylated Human IL-17F, His Avi Tag Per Well



Immobilized Biotinylated Human IL-17F, His Avi Tag at 1µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Human IL-17Rc, hFc Tag (Cat.IL1-HM2RC) with the EC50 of 8.4ng/ml determined by ELISA.