Datasheet for ABIN7275002

IL17F Protein (AA 31-163) (His tag)

3 Images

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Overview

Quantity:	100 µg
Target:	IL17F
Protein Characteristics:	AA 31-163
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL17F protein is labelled with His tag.

Product Details

Purpose:	Human IL-17F Protein
Sequence:	Arg31-Gln163
Characteristics:	Recombinant Human IL-17F Protein is expressed from HEK293 with His tag at the C-Terminus.It contains Arg31-Gln163.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human IL-17F, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human IL-17R alpha, hFc Tag with the EC50 of 1.76µg/ml determined by ELISA. See testing image for detail.

Target Details

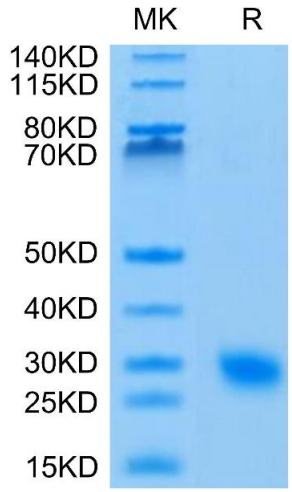
Target:	IL17F
Alternative Name:	IL-17F (IL17F Products)
Background:	The Interleukin 17 (IL-17) family proteins, comprising six members (IL-17A through IL-17F), are secreted, structurally related proteins that share a conserved cystine-knot fold near the C-terminus, but have considerable sequence divergence 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.
Molecular Weight:	17.5 kDa. Due to glycosylation, the protein migrates to 23-28 kDa based on Tris-Bis PAGE result.
UniProt:	Q96PD4
Pathways:	Cellular Response to Molecule of Bacterial Origin, Positive Regulation of Endopeptidase Activity

Application Details

Restrictions:	For Research Use only

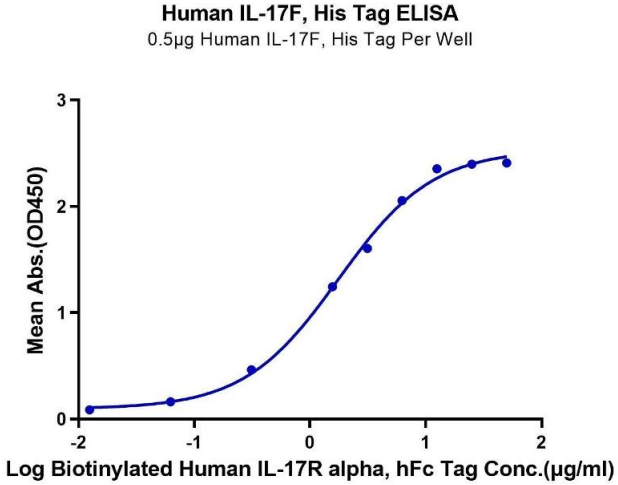
Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months after reconstitution., 2-8°C for 2-7 days after reconstitution., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



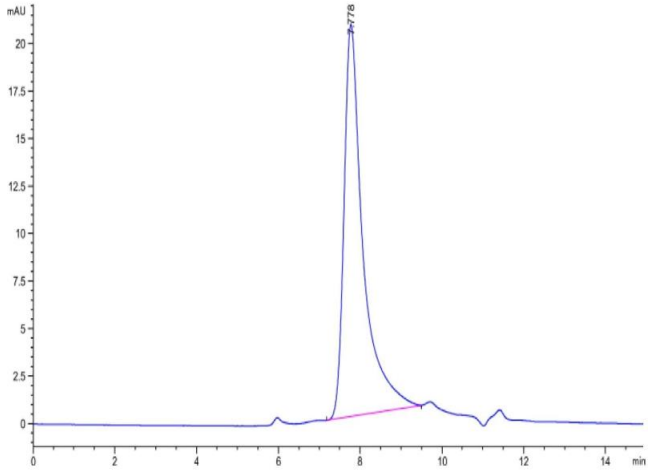
SDS-PAGE

Image 1. Human IL-17F on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



ELISA

Image 2. Immobilized Human IL-17F, His Tag at 5 μg/mL (100 μL/well) on the plate. Dose response curve for Biotinylated Human IL-17R alpha, hFc Tag with the EC50 of 1.76 μg/mL determined by ELISA.



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 3. The purity of Human IL-17F is greater than 95 % as determined by SEC-HPLC.