

Datasheet for ABIN7274920
IL-25 Protein (AA 33-177) (His tag)

3 Images

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Overview

Quantity:	100 µg
Target:	IL-25 (IL25)
Protein Characteristics:	AA 33-177
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL-25 protein is labelled with His tag.

Product Details

Purpose:	Human IL-25/IL-17E Protein
Sequence:	Tyr33-Gly177
Characteristics:	Recombinant Human IL-25/IL-17E Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Tyr33-Gly177.
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:	The affinity constant of 0.81nM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

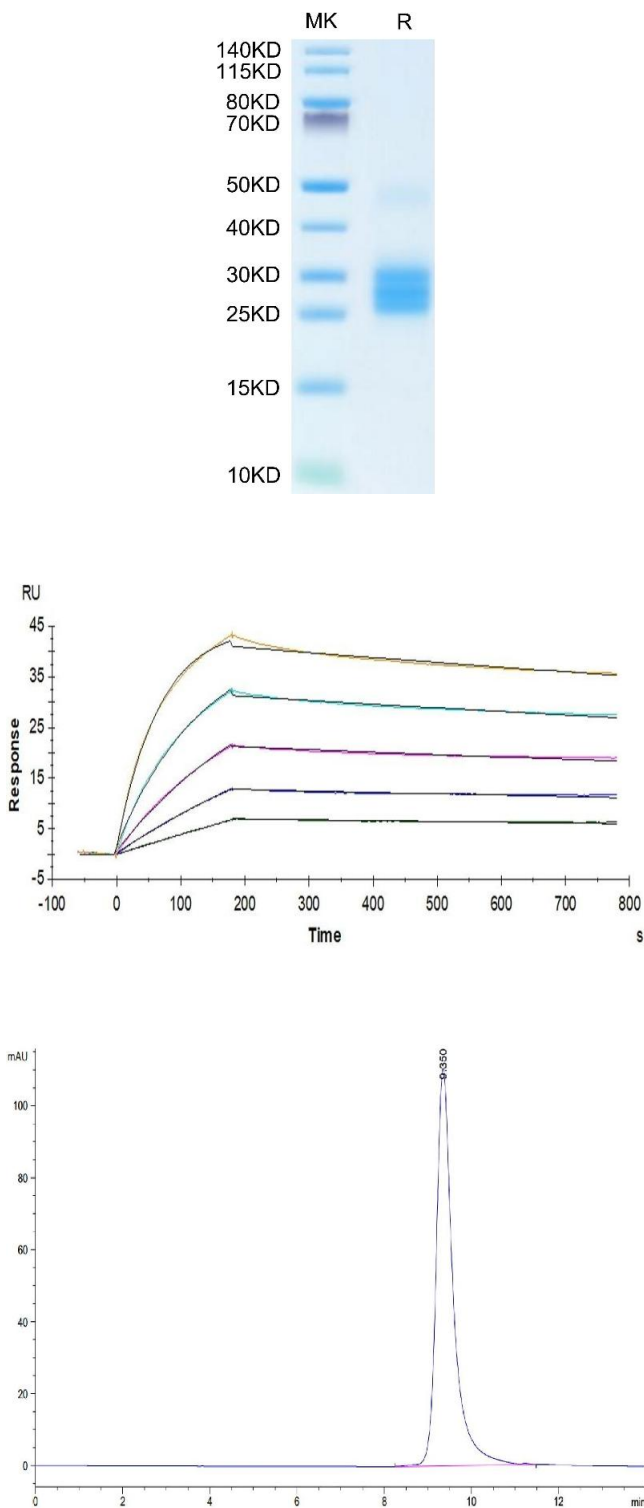
Target:	IL-25 (IL25)
Alternative Name:	IL-25 (IL25 Products)
Background:	IL-25, also known as IL-17E, is a member of the IL-17 cytokine family mostly produced by epithelial cells and innate immune cells. After binding to the IL-17RB/IL-17RA complex, IL-25 induces downstream signaling responses in epithelial cells and type 2 lymphocytes, which initiates, propagates, and sustains type 2 immunity. The function of IL-25 in allergic diseases such as asthma has been well established, and now also is extended to diseases such as inflammatory bowel disease and cancer.
Molecular Weight:	17.6 kDa. Due to glycosylation, the protein migrates to 25-30 kDa based on Tris-Bis PAGE result.

Application Details

Restrictions:	For Research Use only
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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-25 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

Surface Plasmon Resonance

Image 2. Human IL-17RB, His Tag immobilized on CM5 Chip can bind Human IL-25/IL-17E, His Tag with an affinity constant of 0.81nM as determined in SPR assay (Biacore T200).

Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 3. The purity of Human IL-25 is greater than 95 % as determined by SEC-HPLC.