# Recombinant human IL-25/IL-17E Protein



Catalog No.: RP01755 Recombinant 1 Publications

## Sequence Information

**Species** Gene ID **Swiss Prot** human 64806 O9H293

**Tags** 

C-6His

**Synonyms** IL17E:IL-25

## **Product Information**

HEK293 cells

**Purification** ≥ 95 % as

determined by SDS-

PAGE.

Calculated MW Observed MW

17.58 kDa 20-28 kDa

#### Endotoxin

< 0.1 EU/µg of the protein by LAL method.

#### Formulation

Lyophilized from a 0.22 µm filtered solution of 20 mM Tris,150 mM NaCl,1 mM EDTA,pH8.0

#### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

<u>a</u>	400-999-6126
$\bowtie$	cn.market@abclonal.com.cn
•	www.abclonal.com.cn

## **Background**

Interleukin-25 (IL-25) is a cytokine that shares sequence similarity with interleukin 17. This cytokine can induce NF-kappaB activation, and stimulate the production of interleukin 8. Both this cytokine and interleukin 17B are ligands for the cytokine receptor IL17BR. IL-25 is a member of the IL-17 family of cytokines. However, unlike the other members of this family, IL-25 promotes T helper (Th) 2 responses. IL-25 also regulates the development of autoimmune inflammation mediated by IL-17-producing T cells. IL-25 and IL-17, being members of the same cytokine family, play opposing roles in the pathogenesis of organ-specific autoimmunity. IL-25 promotes cell expansion and Th2 cytokine production when Th2 central memory cells are stimulated with thymic stromal lymphopoietin (TSLP)-activated dendritic cells (DCs), homeostatic cytokines, or T cell receptor for antigen triggering. Elevated expression of IL-25 and IL-25R transcripts was observed in asthmatic lung tissues and atopic dermatitis skin lesions, linking their possible roles with exacerbated allergic disorders. A plausible explanation that IL-25 produced by innate effector eosinophils and basophils may augment the allergic inflammation by enhancing the maintenance and functions of adaptive Th2 memory cells had been provided.

### **Basic Information**

#### Description

Recombinant human IL-25/IL-17E Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Tyr33-Gly177) of human IL-25(Accession  $\#NP_073626.1$ ) fused with a  $6\times His$  tag at the C-terminus.

## **Bio-Activity**

Measured by its ability to induce CXCL1/GRO alpha secretion in HT-29 human colon adenocarcinoma cells. The  $ED_{50}$  for this effect is 13.32-53.24 ng/mL, corresponding to a specific activity of  $1.88 \times 10^4 \sim 7.51 \times 10^4$  units/mg.

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

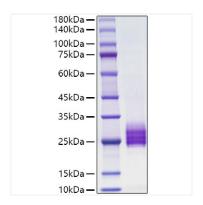
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for

Avoid repeated freeze/thaw cycles.

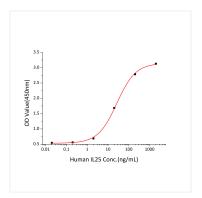
### **Operational Notes**

For your safety and health, please wear a lab coat and disposable gloves for handling.

## **Validation Data**



Recombinant human IL-25/IL-17E Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Recombinant human IL-25 induce CXCL1/GRO alpha secretion in HT-29 human colon adenocarcinoma cells. The ED $_{50}$  for this effect is 13.32-53.24 ng/mL, corresponding to a specific activity of  $1.88\times10^4\sim7.51\times10^4$  units/mg.