

## CHASELECTION

## Recombinant Human IL25, Tag Free

货号(Catalog Number): CY122FXXXX(L)

别名(synonym): Human IL25; interleukin-25; IL25; IL-25; IL17E; IL-17E; interleukin-17E;

来源(Source): Human embryonic kidney cell, HEK293-derived human IL-25 protein

## 蛋白结构 (Structure):

该蛋白不含标签

基因 ID: Q9H293

## 氨基酸序列

Tyr33-Gly177

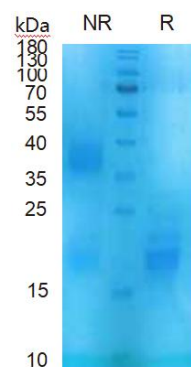
## 分子量大小(MW)

16.7 kDa (Monomer)

## 纯度 (Purity)

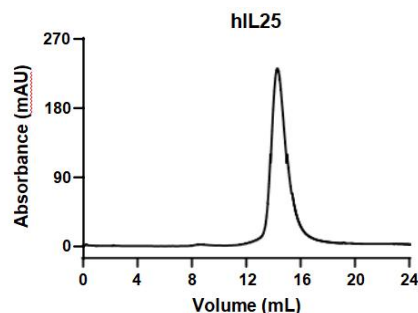
&gt; 95%, determined by SDS-PAGE

## SDS-PAGE



4 ug/lane protein was resolved with SDS-PAGE under non-reducing (NR) and reducing (R) conditions and visualized by Coomassie Blue staining.

## Gel-filtration



版本号: IN-PA-33-00

Size-exclusion chromatography of recombinant human IL25 protein (280 nm absorbance)

## 内毒素含量 (Endotoxin)

&lt;0.010 EU per 1 ug of the protein by the LAL method

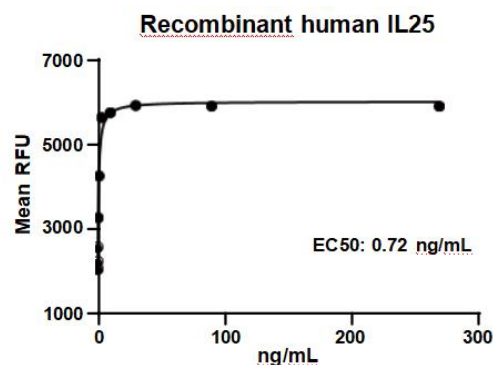
## 制剂(Formulation)

Solution protein.

Dissolved in sterile PBS buffer.

This solution can be diluted into other aqueous buffers.  
Centrifuge the vial prior to opening.

## 活性检测 (Biological Activity)



Recombinant human IL25 induces CXCL1/GRO alpha secretion in HT-29 human colon adenocarcinoma cells.

## 储存与运输(Storage)

Avoid repeated freeze-thaw cycles.

It is recommended that the protein be aliquoted for optimal storage.

36 months from date of receipt, -20 to -70 ° C as supplied.

## 产品背景介绍 (Production)

Interleukin-25 (IL-25), which is also known as IL-17E, promotes Th2-biased immune responses. This is in contrast to other IL-17 family members which promote Th1- and Th17-biased inflammation. IL-25 is an important mediator of allergic reactions and protection against intestinal parasites. Mature human IL-25 shares 80% amino acid sequence identity with mouse and rat IL-25. During helminth infections and allergic reactions, IL-25 is locally up-regulated in

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intestinal and airway epithelial cells, atopic dermatitis skin lesions, and local Th2 cells, eosinophils, and basophils. It binds to IL-17 RB but also requires IL-17 RA to exert its activity. IL-25 acts on a variety of cell types which respond with increased production of Th2 cytokines (e.g. IL-4, IL-5, IL-13) and reduced production of Th1 and Th17 cytokines (e.g. IFN-gamma, IL-12, IL-23, IL-17A, IL-17F). Airway IL-25 can be activated by MMP-7, a protease that is up-regulated in airway epithelium in response to allergen exposure. Cleaved IL-25 shows anti-inflammatory M2 macrophages, increased eosinophil mobilization and activation, and dendritic cell migration. These actions promote protective anti-helminth immune responses as well as allergic inflammation and airway hyperreactivity. The IL-25 induced suppression of Th1 and Th17 cytokines limits Th17 cell expansion and disease pathology in autoimmunity and colitis.

