

## Recombinant Human, IL25 / Interleukin-25,

### Animal Free & Carrier Free

Cat #: C-CYP180

Size: 5µg, 20µg, 100µg, 500µg, 1mg

Shipping: Blue Ice

### Product Overview

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.

### Product Information

**Source:** *Escherichia Coli*.

**Purity:** >98% as determined by SDS-PAGE. Ni-NTA chromatography. Measure by its ability to induce IL-8 secretion in human PBMCs. The ED<sub>50</sub> for this effect is < 5 ng/mL.

**Biological Activity:** Measure by its ability to induce CXCL1 secretion in HT29 cells. The ED<sub>50</sub> for this effect is < 1 ng/mL.

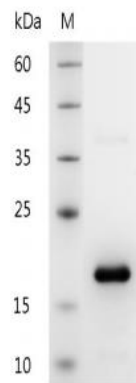
**Endotoxin:** <0.1 EU per 1 µg of the protein by the LAL method.

**Amino acid sequence:**

MYSHWPSCCPSKQDTSEELLRWSTVPVPPLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYH

ARCLCPHCVSLQTGSHMDPRGNSSELLYHNQTVFYRRPCHGEKGTHTKGYCLERRLYRVSLACVCVRPRVMG with polyhistidine tag at the C-terminus.

**Formulation:** Lyophilized from a sterile filtered aqueous solution in 1×PBS, pH 8.0.



SDS-PAGE analysis of recombinant human IL-25

## Usage Method

1. Before opening, it is recommended to centrifuge at 3000-3500 rpm for 5 minutes.
2. Reconstitute to a concentration of 0.1-1.0 mg/mL in sterile distilled H<sub>2</sub>O. Allow the solution to sit at room temperature for at least 20 minutes to ensure complete dissolution. Avoid vigorous vortexing.
3. The reconstituted solution can be stored at 2-8°C for up to 1 week.
4. For long-term storage, it is recommended to further dilute the solution with a carrier protein (such as 0.1% BSA, 10% FBS, or 5% HSA) to a concentration of no less than 10 µg/mL and aliquot for storage at -20°C to -80°C for 3 to 6 months. If serum-free experiments are required, a 5% trehalose solution can be used as a carrier instead. Avoid repeated freeze-thaw cycles.

## Storage

| Physical Appearance             | Storage        | Stability        |
|---------------------------------|----------------|------------------|
| Lyophilized powder              | -20°C to -80°C | 1 year           |
| Reconstitution (initial)        | 2°C to 8°C     | Less than 1 week |
| Reconstitution (after dilution) | -20°C to -80°C | 3 to 6 months    |

## Note

The reagent is only used in the field of scientific research, not suitable for clinical diagnosis or other purposes.