

## **PRODUCT INFORMATION**

IL5 **Target** 

**Synonyms** IL-5;TRF;Interleukin-5;EDF

Recombinant Human IL5 protein with C-terminal **Description** 

6×His tag

**Delivery** In Stock **Uniprot ID** P05113 **HEK293 Expression Host** Tag C-6×His Tag

Molecular

**Background** 

IL5(Ile20-Ser134) 6×His tag Characterization

The protein has a predicted molecular mass of 13.94 kDa after removal of the signal peptide. The apparent molecular mass of IL5-His is **Molecular Weight** 

approximately 15-25 kDa due to glycosylation. The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue

Purity

staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis Formulation & Reconstitution

for specific instructions of reconstitution. Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not

intended for use within a month, aliquot and store Storage & Shipping at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient

temperature.

This gene encodes a cytokine that acts as a growth and differentiation factor for both B cells and eosinophils. The encoded cytokine plays a major role in the regulation of eosinophil

formation, maturation, recruitment and survival. The increased production of this cytokine may be related to pathogenesis of eosinophil-dependent inflammatory diseases. This cytokine functions by binding to its receptor, which is a heterodimer, whose beta subunit is shared with the receptors for interleukine 3 (IL3) and colony stimulating factor 2 (CSF2/GM-CSF). This gene is located on the processing for interleuking a cytoking gene is located on the colony.

chromosome 5 within a cytokine gene cluster which includes interleukin 4 (IL4), interleukin 13 (IL13), and CSF2. This gene, IL4, and IL13 may be regulated coordinately by long-range regulatory elements spread over 120 kilobases on

chromosome 5q31.

**Usage** Research use only

Conjugate Unconjugated

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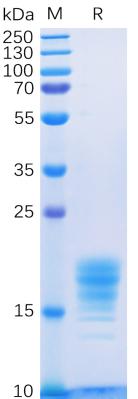


Figure 1. Human IL5 Protein, His Tag on SDS-PAGE under reducing condition.

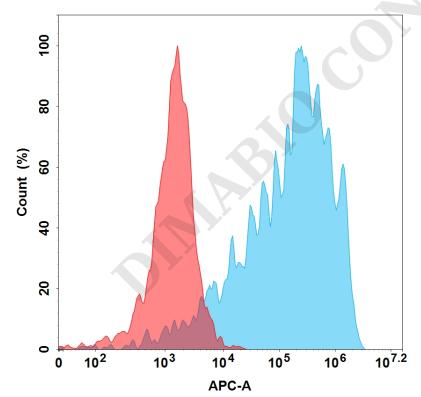
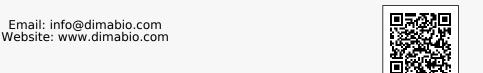


Figure 2. Flow cytometry analysis with 1  $\mu$ g/mL Human IL5 Protein, His Tag (PME100085) on HEK293 cells transfected with Human IL5RA protein (Blue histogram) or HEK293 transfected with irrelevant protein (Red histogram).





## Human IL5, His tagged protein ELISA

0.5 μg of Human IL5, His tagged protein per well

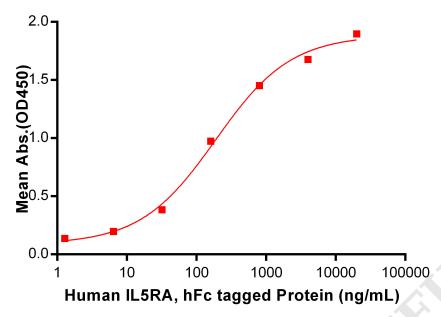


Figure 3. ELISA plate pre-coated by 5  $\mu$ g/mL (100  $\mu$ L/well) Human IL5 protein, His Tag (PME100085) can bind Human IL5RA Protein, HFC Tag PME100536 in a linear range of 6.4-4000 ng/mL.

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