

PRODUCT INFORMATION

IL5 **Target**

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

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

human Fc tag

Delivery In Stock **Uniprot ID** P05113 **HEK293 Expression Host**

C-Human Fc Tag Tag

Molecular

Background

IL5(Ile20-Ser134) hFc(Glu99-Ala330) Characterization

The protein has a predicted molecular mass of 39.3 kDa after removal of the signal peptide. The apparent molecular mass of IL5-hFc is **Molecular Weight**

approximately 35-55 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

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chromosome 5q31.

Usage Research use only

Conjugate Unconjugated





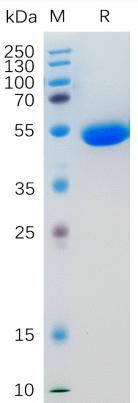


Figure 1. Human IL5 Protein, hFc Tag on SDS-PAGE under reducing condition.

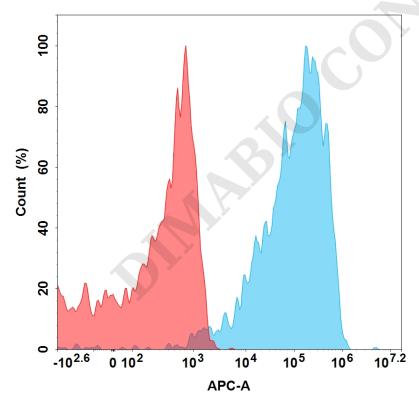


Figure 2. Flow cytometry analysis with 15 μ g/mL Human IL5 Protein, hFc Tag (PME100537) on HEK293 cells transfected with Human IL5RA protein (Blue histogram) or HEK293 transfected with irrelevant protein (Red histogram).



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Human IL5,hFc Tagged protein ELISA

0.2 μg of Human IL5, hFc tagged protein per well

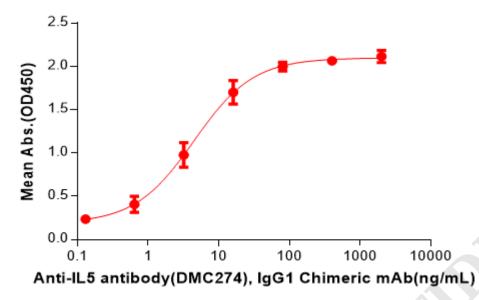


Figure 3. ELISA plate pre-coated by 2 μ g/mL (100 μ L/well) Human IL5 Protein, hFc Tag(PME100537) can bind Anti-IL5 antibody(DMC274), IgG1 Chimeric mAb in a linear range of 0.64–16 ng/mL.





