

## HUMAN IL5 PROTEIN, HFC TAG

**Cat.#:** 11337

**Product Name:** Human IL5 Protein

**Size:** 10 µg, 50 µg and 100 µg

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

**Target:** IL5

**UNIPROT ID:** P05113

**Description:** Recombinant Human IL5 protein with C-terminal human Fc tag

**Background:** 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 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.

**Species/Host:** HEK293

**Molecular Weight:** 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 approximately 35-55 kDa due to glycosylation.

**Molecular Characterization:** IL5(Ile20-Ser134) hFc(Glu99-Ala330)

**Purity:** The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

**Formulation & Reconstitution:** Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

**Storage & Shipping:** 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 at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

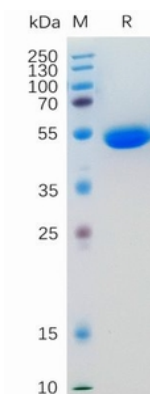


Figure 1. Human IL5 Protein, hFc Tag on SDS-PAGE under reducing condition.

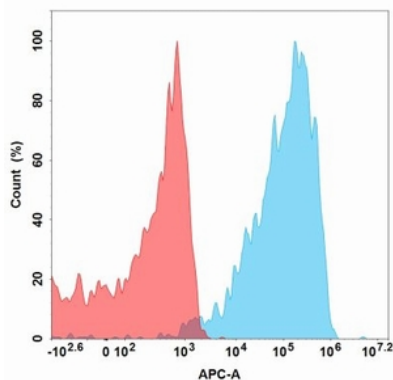


Figure 2. Flow cytometry analysis with 15  $\mu\text{g}/\text{ml}$  Human IL5 Protein, hFc Tag (11337) on Expi293 cells transfected with Human IL5RA protein (Blue histogram) or Expi293 transfected with irrelevant protein (Red histogram).

### Human IL5, hFc Tagged protein ELISA

0.2  $\mu\text{g}$  of Human IL5, hFc tagged protein per well

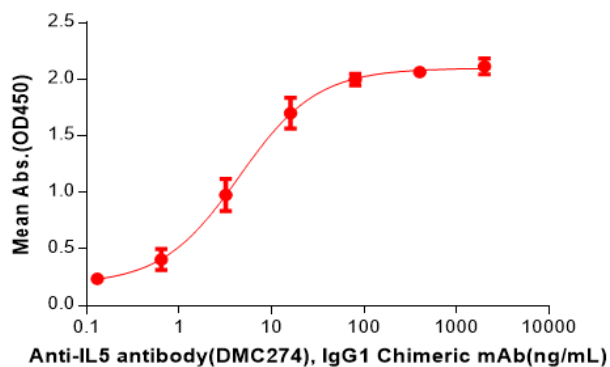


Figure 3. ELISA plate pre-coated by 2  $\mu\text{g}/\text{ml}$  (100  $\mu\text{l}/\text{well}$ ) Human IL5 Protein, hFc Tag(11337) can bind Anti-IL5 antibody(DMC274), IgG1 Chimeric mAb in a linear range of 0.64-16 ng/mL.