Human IL5 Protein, His Tag Cat. No. PME100085



## **PRODUCT INFORMATION**

SynonymsIL-5;TRF;Interleukin-5;EDFDescriptionRecombinant Human IL5 protein with C-terminal 6×His tagDeliveryIn StockUniprot IDP05113Expression HostHEK293TagC-6×His TagMolecular CharacterizationIL5(IIe20-Ser134) 6×His tagMolecular WeightThe protein has a predicted molecular mass of 13.94 kDa after removal of the signal peptide.The approximately 15-25 kDa due to glycosylation. The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.PurityLyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization.Please see Certificate of Analysis for specific instructions of reconstitution. Storage & ShippingLyophilized form. After reconstitution. store at -20°C to -80°C for 12 months in lyophilized proteins are shipped at ambient temperature. This gene encodes a cytokine that acts as a
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<ul> <li>Background</li> <li>Background</li> <li>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.</li> </ul>
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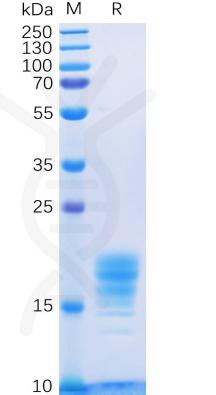


Figure 1. Human IL5 Protein, His Tag on SDS-PAGE under reducing condition.

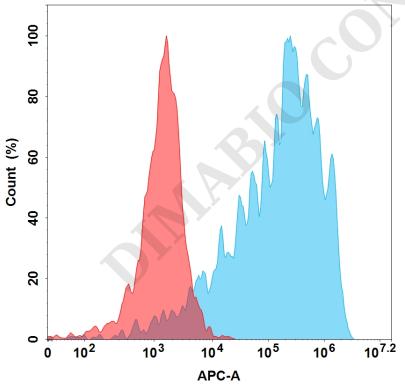


Figure 2. Flow cytometry analysis with 1  $\mu$ g/mL Human IL5 Protein, His Tag (PME100085) on HEK293 cells transfected with Human IL5RA protein (Blue histogram) or HEK293 transfected with irrelevant protein (Red histogram).

Address: Wuhan institute of Biotechnology B7, Biolake No.666 Gaoxin Road, Wuhan, Hubei, China Telephone: +1 2409940618(USA) /+86-18062749453(China) /+86-400-006-0995(China)

Email: info@dimabio.com Website: www.dimabio.com





## Human IL5, His tagged protein ELISA

0.5  $\mu g$  of Human IL5, His tagged protein per well

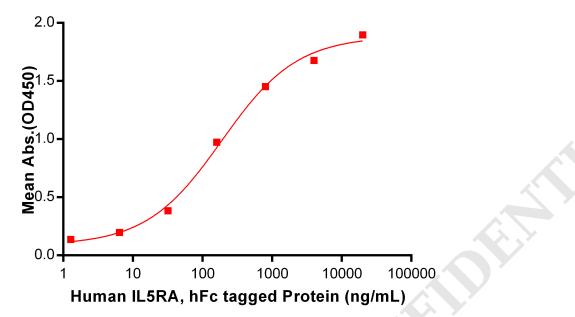


Figure 3. ELISA plate pre-coated by 5 μg/mL (100 μL/well) Human IL5 protein, His Tag (PME100085) can bind Human IL5RA Protein, hFc Tag PME100536 in a linear range of 6.4-4000 ng/mL.

