

## PRODUCT INFORMATION

<b>Target</b>	IL5RA
<b>Synonyms</b>	IL5Ra;CD125;IL-5 R alpha
<b>Description</b>	Recombinant human L5RA protein with C-terminal 6×His tag
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	Q01344
<b>Expression Host</b>	HEK293
<b>Tag</b>	C-6×His Tag
<b>Molecular Characterization</b>	IL5RA(Asp21-Pro338) 6×His tag
<b>Molecular Weight</b>	The protein has a predicted molecular mass of 37.0 kDa after removal of the signal peptide. The apparent molecular mass of IL5RA-His is approximately 50-55 kDa due to glycosylation.
<b>Purity</b>	The purity of the protein is greater than 90% as determined by SDS-PAGE and Coomassie blue staining.
<b>Formulation &amp; Reconstitution</b>	Lyophilized 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.
<b>Storage &amp; Shipping</b>	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.
<b>Background</b>	The protein encoded by this gene is an interleukin 5 specific subunit of a heterodimeric cytokine receptor. The receptor is comprised of a ligand specific alpha subunit and a signal transducing beta subunit shared by the receptors for interleukin 3 (IL3), colony stimulating factor 2 (CSF2/GM-CSF), and interleukin 5 (IL5). The binding of this protein to IL5 depends on the beta subunit. The beta subunit is activated by the ligand binding, and is required for the biological activities of IL5. This protein has been found to interact with syndecan binding protein (syntenin), which is required for IL5 mediated activation of the transcription factor SOX4. Several alternatively spliced transcript variants encoding four distinct isoforms have been reported.
<b>Usage</b>	Research use only



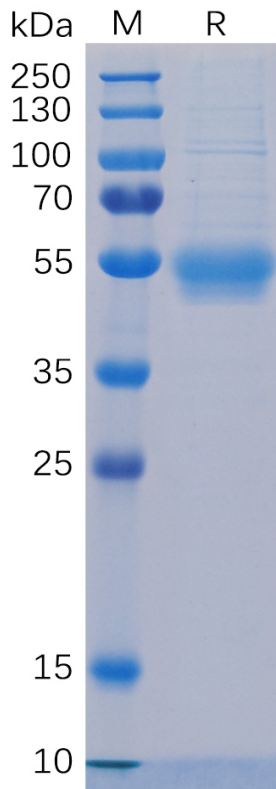


Figure 1. Human IL5RA Protein, His Tag on SDS-PAGE under reducing condition.

### Human IL5RA, His Tagged protein ELISA

0.2  $\mu$ g of Human IL5RA, His tagged protein per well

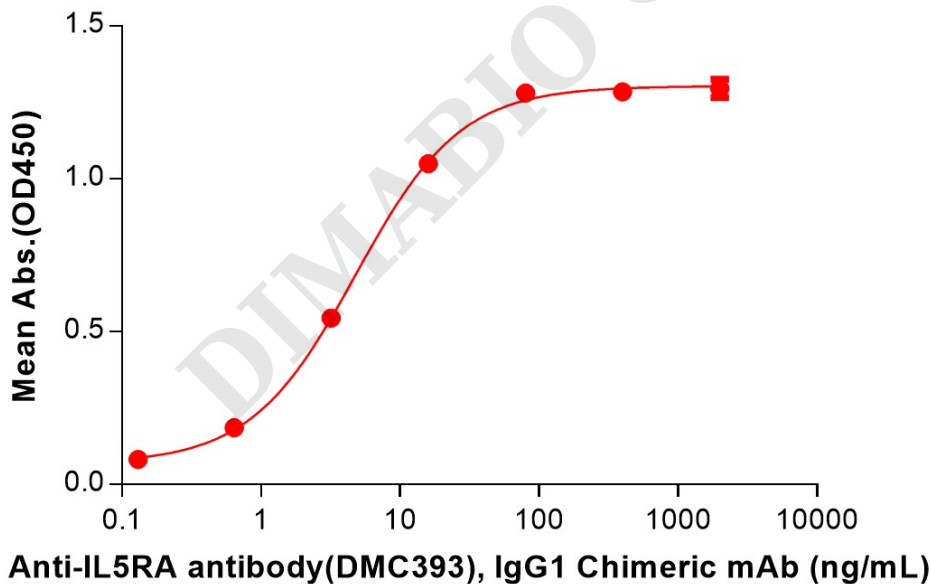


Figure 2. ELISA plate pre-coated by 2  $\mu$ g/mL (100  $\mu$ L/well) Human IL5RA Protein, His Tag (PME100093) can bind Anti-IL5RA antibody(DMC393), IgG1 Chimeric mAb in a linear range of 0.64-16 ng/mL.



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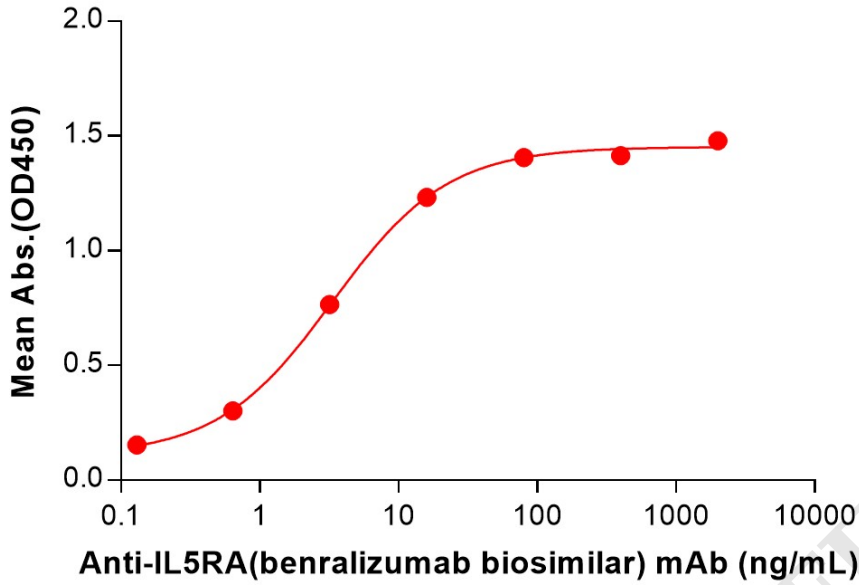


Figure 3. ELISA plate pre-coated by 2  $\mu\text{g}/\text{mL}$  (100  $\mu\text{L}/\text{well}$ ) Human IL5RA Protein, His Tag (PME100093) can bind Anti-IL5RA(benralizumab biosimilar) mAb (BME100221) in a linear range of 0.13–16 ng/mL.

