

# Cynomolgus IL-4R alpha Protein; His Tag

## Product Information

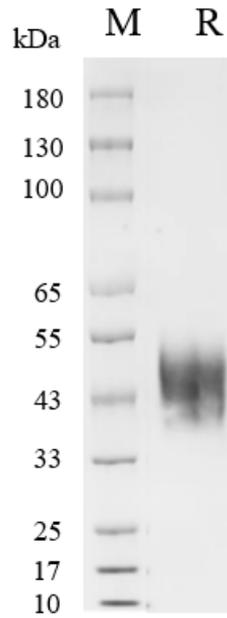
<b>Product Name</b>	Cynomolgus IL-4R alpha Protein; His Tag
<b>Storage temp.</b>	Store at $\leq -70^{\circ}\text{C}$ , stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
<b>Catalog# / Size</b>	<b>GM-87881RP-100 / 100 <math>\mu\text{g}</math></b> <b>GM-87881RP-1000 / 1 mg</b>

## Protein Information

<b>Alternative Names</b>	IL4R,CD124,IL4RA
<b>Source</b>	Cynomolgus IL-4R alpha Protein; His Tag (GM-87881RP) is expressed from human 293 cells (HEK-293). It contains AA Met 26 - Arg 232 (Accession # G7Q0S7).  This protein carries a His tag at the C-terminus.
<b>Purity</b>	> 90% as determined by SDS-PAGE
<b>Endotoxin</b>	< 1 EU/ $\mu\text{g}$ , determined by LAL gel clotting assay
<b>Predicted Mol Mass</b>	23.5 KDa
<b>Formulation</b>	Supplied as a 0.2 $\mu\text{m}$ filtered solution of PBS, pH7.2-7.4.
<b>Description</b>	<p>Interleukin4 (IL4) is a cytokine with several important functions in the immune system. It primarily helps activate B cells and produce antibodies, especially IgE antibodies related to allergies. It also promotes the differentiation of T helper cells into Th2 cells, supporting humoral immune responses. Additionally, IL4 can help suppress inflammation in certain situations, maintaining immune balance. It is mainly secreted by activated T cells, mast cells, and basophils, and serves as a key target for interventions in various diseases, including allergies and asthma. Due to its crucial role in immune regulation, IL4 has been a significant focus in immunology research.</p> <p>The IL4RA protein, also known as the interleukin-4 receptor alpha chain, is an important cell surface receptor primarily involved in regulating the immune system. When it binds with interleukin-4 (IL-4), it triggers signaling pathways that promote T cell differentiation and B cell proliferation. IL4RA plays a significant role in allergic reactions and asthma, and its gene polymorphisms are associated with susceptibility to various immune-related diseases.</p>

Version:3.3

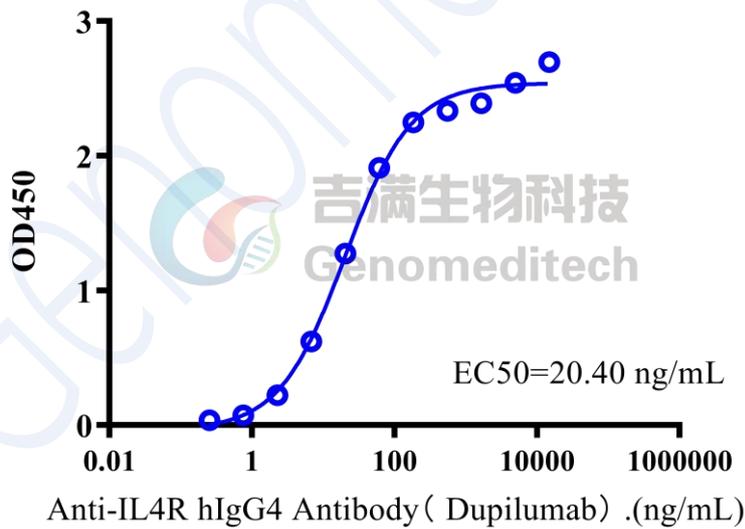
## SDS-PAGE



On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

## Bioactivity-ELISA

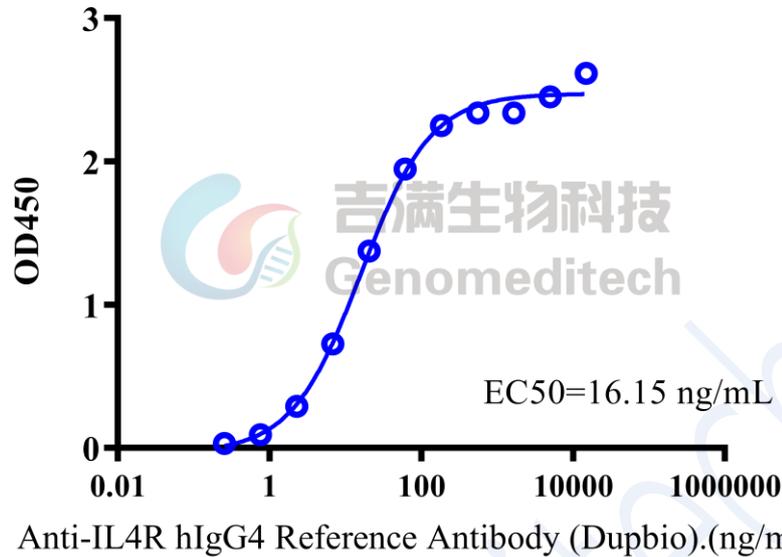
**Bioactivity-ELISA**  
 0.5  $\mu\text{g}$  Cynomolgus IL-4R alpha Protein; His Tag of per well



Cynomolgus IL-4R alpha Protein; His Tag (Catalog # GM-87881RP) was immobilized at 5  $\mu\text{g}/\text{ml}$  (100  $\mu\text{L}/\text{well}$ ). Increasing concentrations of Anti-IL4R hIgG4 Antibody (Dupilumab) (Catalog # GM-53165AB) were added.

### Bioactivity-ELISA

0.5  $\mu$ g Cynomolgus IL-4R alpha Protein; His Tag of per well



Cynomolgus IL-4R alpha Protein; His Tag (Catalog # GM-87881RP) was immobilized at 5  $\mu$ g/ml (100  $\mu$ L/well). Increasing concentrations of Anti-IL4R hIgG4 Reference Antibody (Dupbio) (Catalog # GM-87496MAB) were added.