

# Human IL-4R alpha Protein; His Tag

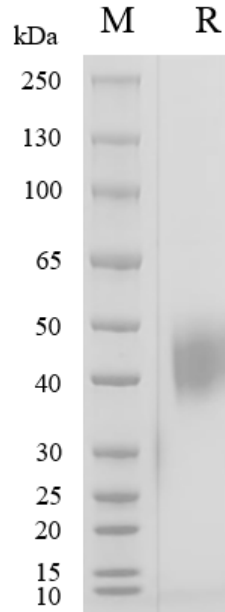
## Product Information

|                        |   |
|------------------------|---|
| <b>Product Name</b>    | Human IL-4R alpha Protein; His Tag  |
| <b>Storage temp.</b>   | Store at $\leq -70^{\circ}\text{C}$ , stable for 6 months after receipt.<br>Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |
| <b>Catalog# / Size</b> | <b>GM-87880RP-100 / 100 <math>\mu\text{g}</math></b><br><b>GM-87880RP-1000 / 1 mg</b>   |

## Protein Information

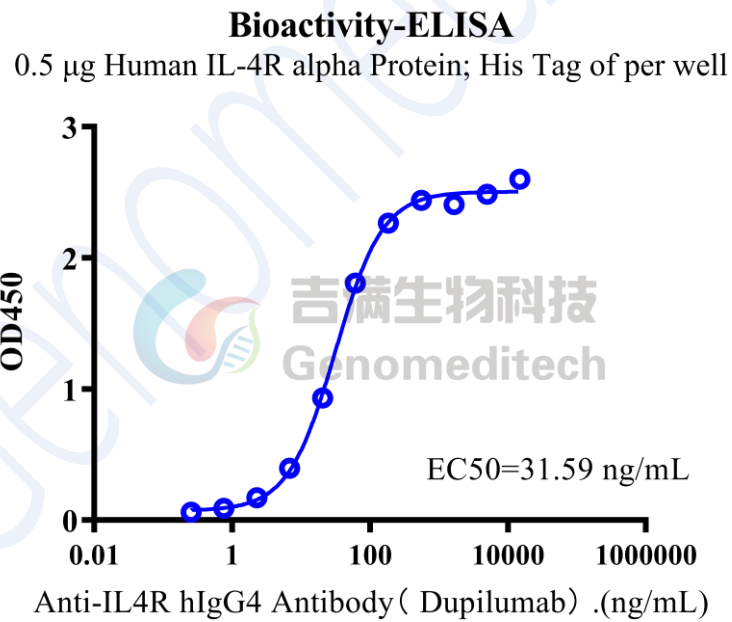
|                           |   |
|---------------------------|---|
| <b>Alternative Names</b>  | IL4R,CD124,IL4RA  |
| <b>Source</b>             | Human IL-4R alpha Protein; His Tag (GM-87880RP) is expressed from human 293 cells (HEK-293). It contains AA Met 26 - His 232 (Accession # P24394-1).<br>This 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> |

## 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



Human IL-4R alpha Protein; His Tag (Catalog # GM-87880RP) was immobilized at 5 µg/ml (100 µL/well). Increasing concentrations of Anti-IL4R hIgG4 Antibody (Dupilumab) (Catalog # GM-53165AB) were added.