

# Biotinylated Human IL-4R alpha Protein; Avi-His Tag

## Product Information

**Product Name** Biotinylated Human IL-4R alpha Protein; Avi-His Tag

**Storage temp.** 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.

**Catalog# / Size** **GM-88079RP-25 / 25  $\mu\text{g}$**   
**GM-88079RP-200 / 200  $\mu\text{g}$**

## Protein Information

**Alternative Names** IL4R,CD124,IL4RA

**Source** Biotinylated Human IL-4R alpha Protein; Avi-His Tag (GM-88079RP) is expressed from human 293 cells (HEK-293). It contains AA Met 26 - His 232 (Accession # P24394-1).

This protein carries a Avi-His tag at the C-terminus.

**Purity** > 90% as determined by SDS-PAGE

**Endotoxin** < 1 EU/ $\mu\text{g}$ , determined by LAL gel clotting assay

**Predicted Mol Mass** 25.3 KDa

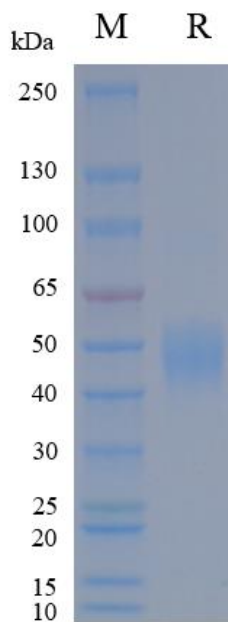
**Formulation** Supplied as a 0.2  $\mu\text{m}$  filtered solution of PBS, pH7.2-7.4.

**Description** 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.

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.

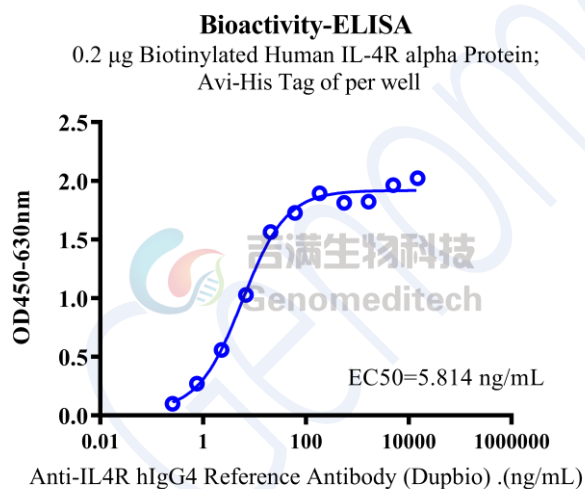
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## SDS-PAGE



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



Biotinylated Human IL-4R alpha Protein; Avi-His Tag (Catalog # GM-88079RP) was immobilized at 2 µg/ml (100 µL/well) on streptavidin precoated. Increasing concentrations of Anti-IL4R hIgG4 Reference Antibody (Dupbio) (Catalog # GM-87496MAB) were added.