

Human IL-4R alpha Protein; mFc Tag

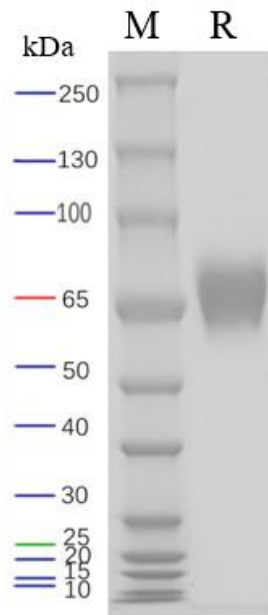
Product Information

Product Name	Human IL-4R alpha Protein; mFc 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-87879RP-100 / 100 μg GM-87879RP-1000 / 1 mg

Protein Information

Alternative Names	IL4R,CD124,IL4RA
Source	Human IL-4R alpha Protein; mFc Tag (GM-87879RP) is expressed from human 293 cells (HEK-293). It contains AA Met 26 - His 232 (Accession # P24394-1). This protein carries a mFc tag at the C-terminus.
Purity	> 90% as determined by SDS-PAGE
Endotoxin	< 1 EU/ μg , determined by LAL gel clotting assay
Predicted Mol Mass	48.4 KDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.4.
Description	<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>

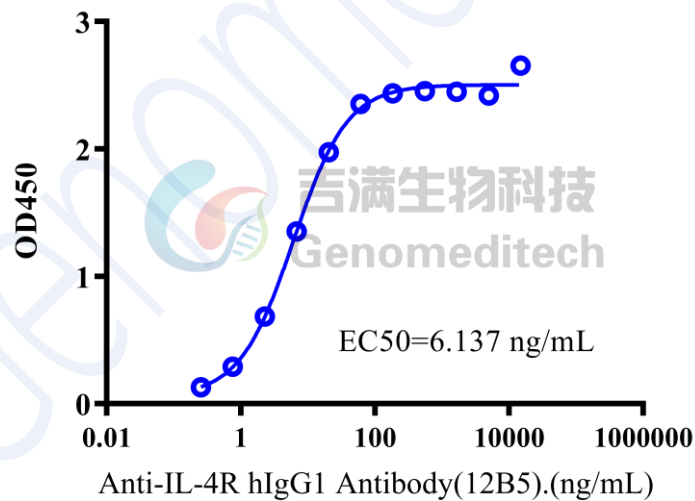
SDS-PAGE



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

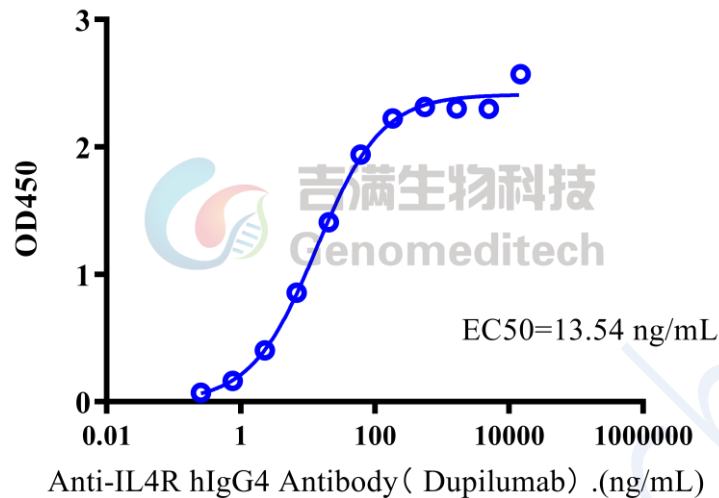
Bioactivity-ELISA
0.5 μ g Human IL-4R alpha Protein; mFc Tag of per well



Human IL-4R alpha Protein; mFc Tag (Catalog # GM-87879RP) was immobilized at 5 μ g/ml (100 μ L/well).
Increasing concentrations of Anti-IL-4R hIgG1 Antibody(12B5) (Catalog # GM-46268AB) were added.

Bioactivity-ELISA

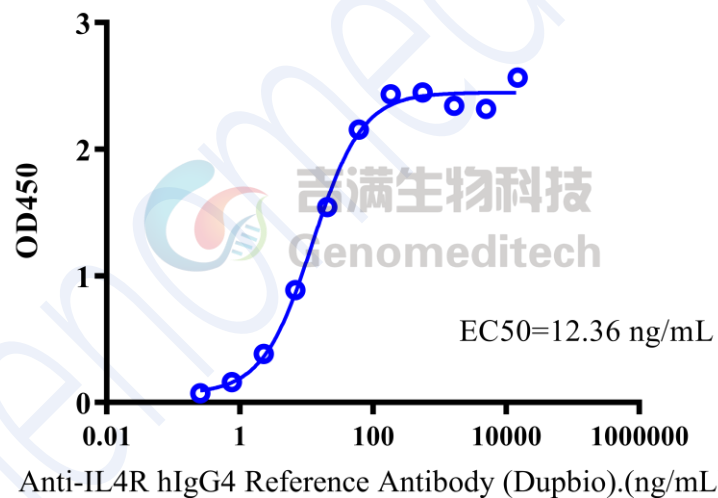
0.5 µg Human IL-4R alpha Protein; mFc Tag of per well



Human IL-4R alpha Protein; mFc Tag (Catalog # GM-87879RP) was immobilized at 5 µg/ml (100 µL/well).
Increasing concentrations of Anti-IL4R hIgG4 Antibody (Dupilumab) (Catalog # GM-53165AB) were added.

Bioactivity-ELISA

0.5 µg Human IL-4R alpha Protein; mFc Tag of per well



Human IL-4R alpha Protein; mFc Tag (Catalog # GM-87879RP) was immobilized at 5 µg/ml (100 µL/well).
Increasing concentrations of Anti-IL4R hIgG4 Reference Antibody (Dupbio) (Catalog # GM-87496MAB) were added.