

Human IL-7RA Protein; His Tag

Product Information

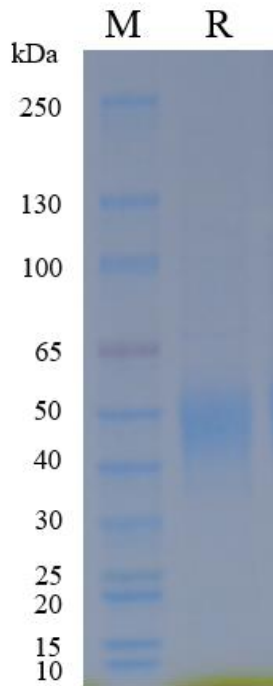
Product Name	Human IL-7RA Protein; His Tag
Storage temp	Store at $\leq -70^{\circ}\text{C}$, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Catalog# / Size	GM-88526RP-100 / 100 μg GM-88526RP-1000 / 1 mg

Protein Information

Alternative Names	CD127
Source	Human IL-7RA Protein; His Tag (GM-88526RP) is expressed from human 293 cells (HEK-293). It contains AA Glu 21 - Asp 239 (Accession # P16871-1). This protein carries a His 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	26.1 KDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.
Description	<p>Human IL-7RA protein is a key immune regulatory molecule that belongs to the hematopoietin receptor superfamily. It is encoded by the <i>IL7R</i> gene and is a protein closely associated with the human immune system. IL-7RA protein was initially identified in immune cells and later found to be widely expressed in multiple lymphoid tissues and cell subsets.</p> <p>Human IL-7RA protein regulates the development and survival of lymphocytes by binding to the IL-7 ligand and forming a functional receptor complex with the common gamma chain (γc). Lymphocytes, including T cells and B cells, are important types of immune cells with critical functions in immune defense, immune memory and immune homeostasis, making them central members of the adaptive immune system.</p> <p>Research indicates that IL-7RA protein plays a significant role in promoting lymphocyte proliferation, maintaining T cell survival and regulating immune system development. Additionally, abnormal expression or mutation of IL-7RA protein is associated with immunodeficiency diseases, autoimmune disorders and the tumor immune microenvironment, making it a potential target for immunotherapy and immune regulation.</p>

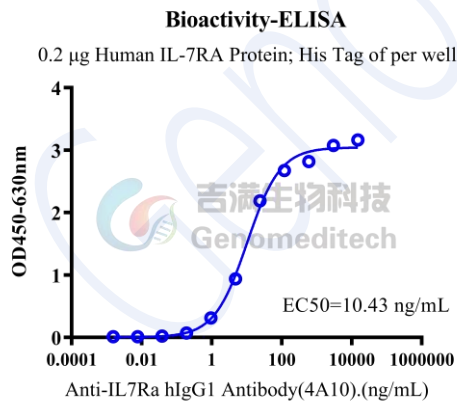
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SDS-PAGE

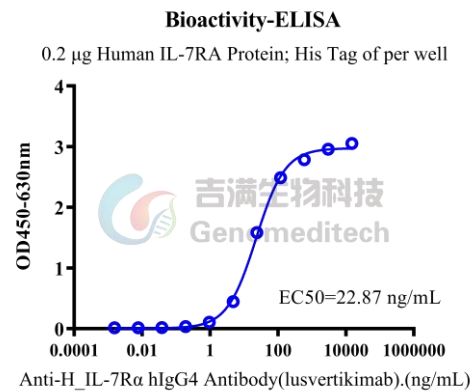


On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

Bioactivity-ELISA



Human IL-7RA Protein; His Tag (Catalog # GM-88526RP) was immobilized at 2 $\mu\text{g}/\text{ml}$ (100 $\mu\text{L}/\text{well}$). Increasing concentrations of Anti-IL7Ra hIgG1 Antibody (4A10) (Catalog # GM-52274AB) were added.



Human IL-7RA Protein; His Tag (Catalog # GM-88526RP) was immobilized at 2 $\mu\text{g}/\text{ml}$ (100 $\mu\text{L}/\text{well}$). Increasing concentrations of Anti-H_IL-7R α hIgG4 Antibody (lusvertikimab) (Catalog # GM-32425AB) were added.