

Human IL-13RA1 Protein; hFc Tag

Product Information

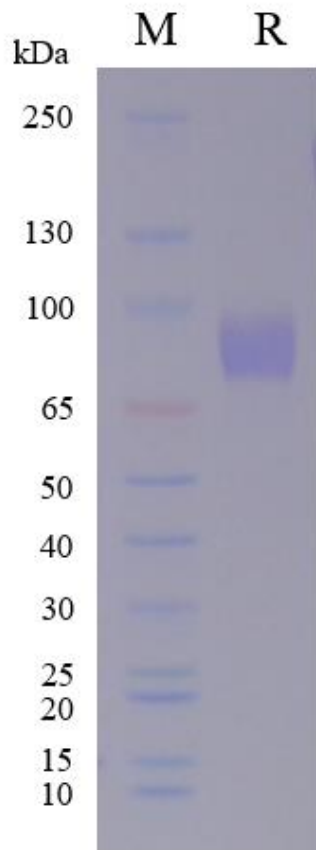
Product Name	Human IL-13RA1 Protein; hFc Tag
Storage temp	Store at $\leq -70^{\circ}\text{C}$, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Catalog# / Size	GM-88588RP-100 / 100 μg GM-88588RP-1000 / 1 mg

Protein Information

Alternative Names	CD213A1, IL-13Ra, NR4, RP13-128O4.2, IL13R α 1
Source	Human IL-13RA1 Protein; hFc Tag (GM-88588RP) is expressed from human 293 cells (HEK-293). It contains AA Gly 22 - Thr 343 (Accession # P78552-1). This protein carries a hFc tag at the C-terminus.
Purity	> 95% as determined by SDS-PAGE
Endotoxin	< 1 EU/ μg , determined by LAL gel clotting assay
Predicted Mol Mass	62.8 kDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.
Description	IL-13RA1 protein is a receptor subunit that belongs to the type I cytokine receptor family. It is encoded by the IL13RA1 gene and is a protein associated with the human immune system and allergic responses. IL-13RA1 protein was initially discovered in immune cells such as B cells and monocytes, and later detected in various cell types including epithelial cells, fibroblasts, and smooth muscle cells. IL-13RA1 protein regulates the activation of downstream signaling pathways involved in inflammation and immune regulation by forming a receptor complex with IL-4R α and binding to its ligands IL-13 and IL-4. B cells, monocytes, and epithelial cells are important components of the immune and respiratory systems, with critical functions in antibody production, pathogen clearance, and tissue homeostasis, making them central members of the inflammatory response system. Research indicates that IL-13RA1 protein plays a significant role in promoting Th2-type immune responses, enhancing mucus production, and modulating allergic inflammation. Additionally, the expression of IL-13RA1 protein is associated with asthma, atopic dermatitis, and other allergic diseases, as well as certain fibrotic disorders and cancers, making it a potential target for immunotherapy and anti-allergic therapy.

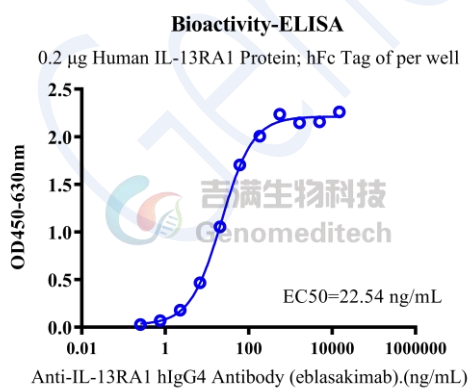
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SDS-PAGE



On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA



Human IL-13RA1 Protein; hFc Tag (Catalog # GM-88588RP) was immobilized at 2 µg/ml (100 µL/well). Increasing concentrations of Anti-IL-13RA1 hIgG4 Antibody (eblasakimab) (Catalog # GM-88181AB) were added.