

Human IL-3RA Protein; His Tag

Product Information

Product Name	Human IL-3RA 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.

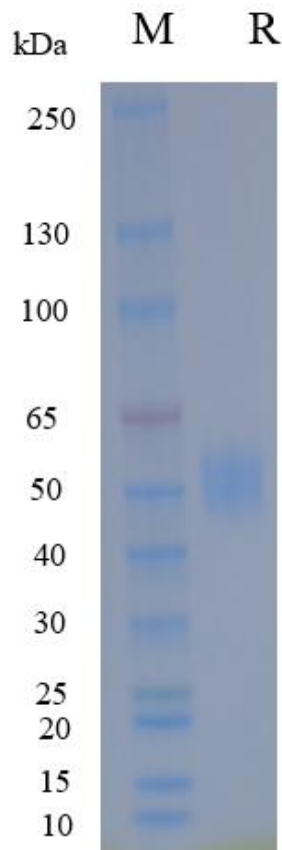
Catalog# / Size	GM-88566RP-100 / 100 μg GM-88566RP-1000 / 1 mg
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Protein Information

Alternative Names	IL-3Ra, IL-3R-alpha, IL3RAY, IL3RX, IL3RY, CD123, hIL3Ra, hIL-3Ra
Source	Human IL-3RA Protein; His Tag (GM-88566RP) is expressed from human 293 cells (HEK-293). It contains AA Thr 19 - Arg 305 (Accession # P26951-1). 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	33.9 kDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.
Description	IL-3RA protein, full name Interleukin-3 Receptor Subunit Alpha, is an important cell surface receptor protein and a member of the cytokine receptor superfamily. IL-3RA protein serves as the specific ligand-binding subunit of the interleukin-3 receptor complex, forming a high-affinity receptor with the common beta subunit (CSF2RB). Abnormal expression of IL-3RA protein is closely associated with the pathogenesis and progression of several hematological malignancies, particularly acute myeloid leukemia (AML), chronic myeloid leukemia (CML), and other myeloid neoplasms. In leukemic cells, overexpression of IL-3RA promotes uncontrolled cell proliferation, resistance to apoptosis, and enhanced survival signaling through downstream pathways such as JAK/STAT, PI3K/AKT, and MAPK/ERK, thereby driving leukemogenesis and disease progression. In summary, IL-3RA protein plays a pivotal role in the development and progression of hematopoietic malignancies. Its restricted expression pattern on leukemic stem cells and progenitor cells makes it an attractive biomarker for disease monitoring and a promising therapeutic target. Elucidating its function is of great significance for understanding the molecular mechanisms of leukemogenesis, guiding targeted therapy selection, and evaluating patient prognosis.

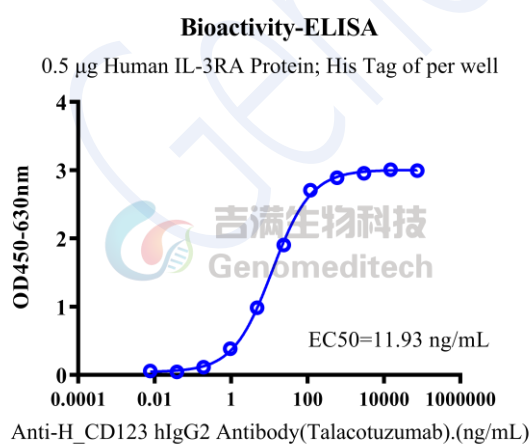
Version:4.0

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-3RA Protein; His Tag (Catalog # GM-88566RP) was immobilized at 5 µg/ml (100 µL/well). Increasing concentrations of Anti-H_CD123 hIgG2 Antibody (Talacotuzumab) (Catalog # GM-27123AB) were added.