

Human IL-6RA Protein; hFc Tag

Product Information

Product Name	Human IL-6RA 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.

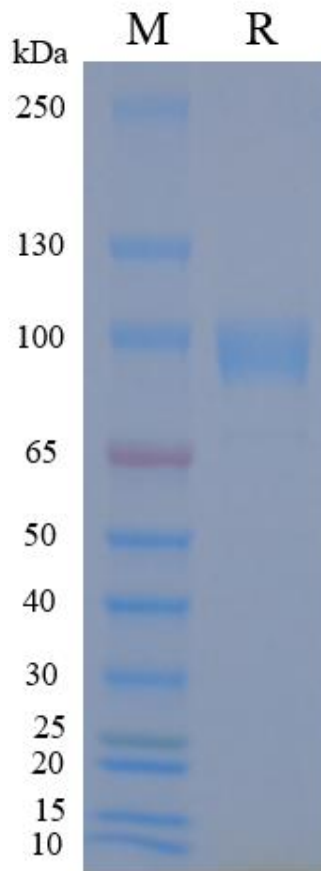
Catalog# / Size	GM-88766RP-100 / 100 μg GM-88766RP-1000 / 1 mg
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Protein Information

Alternative Names	CD126, IL-6R-1, IL-6RA, IL6RA, IL-6R-alpha, IL6RQ, gp80
Source	Human IL-6RA Protein; hFc Tag (GM-88766RP) is expressed from human 293 cells (HEK-293). It contains AA Leu 20 - Pro 365 (Accession # NP_000556.1). 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	64.5 kDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.
Description	IL-6RA protein, full name Interleukin-6 Receptor Subunit Alpha, also known as CD126, IL-6Rα, or gp80, is an important cell surface transmembrane glycoprotein and a member of the type I cytokine receptor family. IL-6RA protein plays a crucial role in regulating immune responses, hematopoiesis, and acute-phase inflammatory reactions by binding to its ligand interleukin-6 (IL-6) with high affinity, thereby forming a complex with gp130 (IL-6ST) and activating downstream JAK/STAT3, MAPK, and PI3K/Akt signaling pathways in normal physiological conditions. Currently, IL-6RA-targeted therapeutic strategies have demonstrated significant clinical efficacy, with the humanized monoclonal antibody Tocilizumab (Actemra®) being approved for the treatment of rheumatoid arthritis, systemic juvenile idiopathic arthritis, Castleman's disease, and severe cytokine release syndrome (CRS) associated with CAR-T therapy. In summary, IL-6RA protein plays a pivotal role in inflammation, autoimmunity, and tumorigenesis, and holds great significance for understanding immunopathology, identifying novel therapeutic targets, developing anti-cytokine biologics and combination immunotherapies, and evaluating patient prognosis in chronic inflammatory diseases and malignancies.

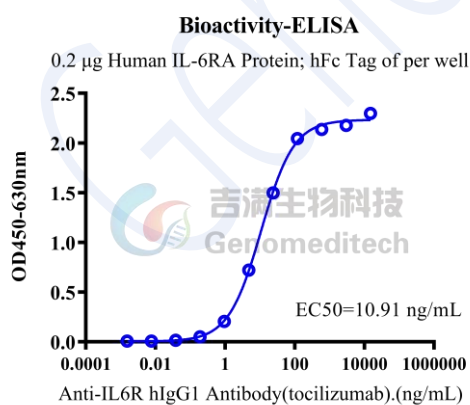
Version:4.0

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 95%.

Bioactivity-ELISA



Human IL-6RA Protein; hFc Tag (Catalog # GM-88766RP) was immobilized at 2 µg/ml (100 µL/well). Increasing concentrations of Anti-IL6R hIgG1 Antibody(tocilizumab) (Catalog # GM-87897AB) were added.