

Human IL-7 Protein; His Tag

Product Information

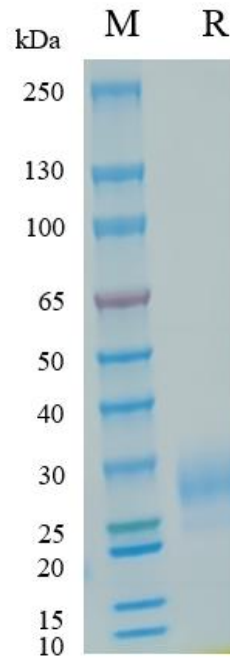
Product Name	Human IL-7 Protein; His Tag
Storage temp.	Store at $\leq -70^{\circ}\text{C}$, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Catalog# / Size	GM-88020RP-100 / 100 μg GM-88020RP-1000 / 1 mg

Protein Information

Alternative Names	IL7, Interleukin-7
Source	Human IL-7 Protein; His Tag (GM-88020RP) is expressed from human 293 cells (HEK-293). It contains AA Asp 26 - His 177 (Accession # P13232-1). 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	17.4 KDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.
Description	IL-7 (Interleukin-7) is an important cytokine produced by various cells, primarily involved in the development and maintenance of the immune system. It plays a key role in promoting the growth, survival, and maturation of T cells, and also participates in B cell differentiation, which is vital for maintaining normal immune function. IL-7 exerts its effects by binding to its receptor, IL-7R, activating downstream signaling pathways that regulate the quantity and function of immune cells.

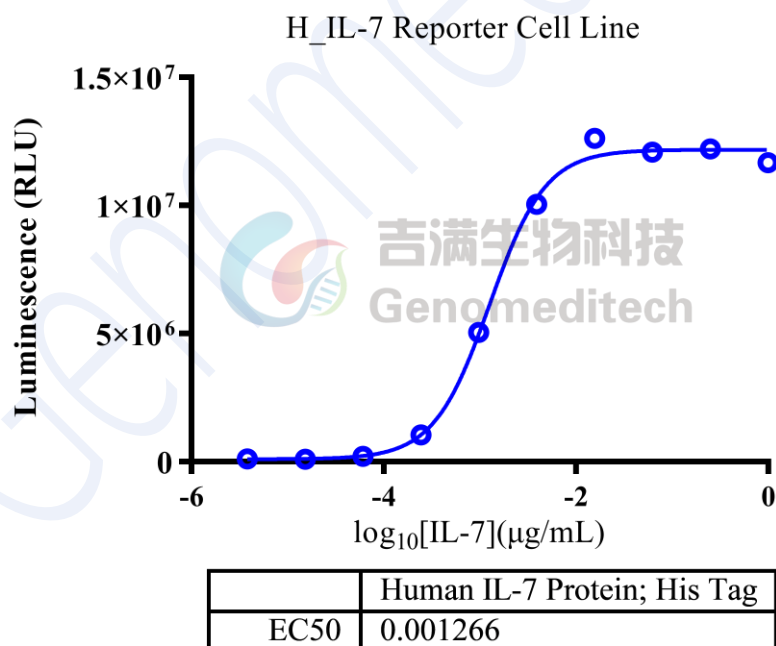
IL-7 has shown great potential in clinical research, especially in the treatment of immune deficiency diseases, autoimmune disorders, and certain types of cancer. Because of its ability to enhance immune responses, IL-7 is viewed as a promising immunomodulator. However, excessive activity of IL-7 can lead to immune system imbalance, so careful regulation is necessary in its application to ensure safe and effective treatment results.

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-CELL BASE



Human IL-7 Protein; His Tag (Catalog # GM-88020RP) was added into H_IL-7 Reporter Cell Line (Catalog # GM-C30922) and stimulates IL-7/IL-7R signals.