

# Human IL-11 Protein; His Tag

## Product Information

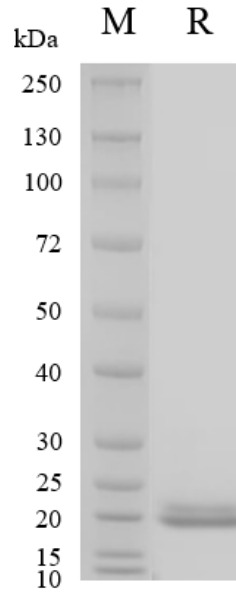
<b>Product Name</b>	Human IL-11 Protein; His Tag
<b>Storage temp.</b>	Store at $\leq -70^{\circ}\text{C}$ , stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
<b>Catalog# / Size</b>	<b>GM-87734RP-100 / 100 <math>\mu\text{g}</math></b> <b>GM-87734RP-1000 / 1 mg</b>

## Protein Information

<b>Alternative Names</b>	IL-11, Interleukin-11, AGIF, Oprelvekin, IL11
<b>Source</b>	Human IL-11 Protein; His Tag (GM-87734RP) is expressed from human 293 cells (HEK-293). It contains AA Pro 22 - Leu 199 (Accession # P20809-1). This protein carries a His tag at the N-terminus.
<b>Purity</b>	> 95% as determined by SDS-PAGE
<b>Endotoxin</b>	< 1 EU/ $\mu\text{g}$ , determined by LAL gel clotting assay
<b>Predicted Mol Mass</b>	20.3 KDa
<b>Formulation</b>	Supplied as a 0.2 $\mu\text{m}$ filtered solution of PBS, pH7.4.
<b>Description</b>	<p>IL-11 (Interleukin-11) is a cytokine that belongs to the interleukin family. It is primarily secreted by fibroblasts, macrophages, and certain types of lymphocytes. IL-11 plays an important role in various physiological and pathological processes, particularly in immune responses, inflammatory reactions, and tissue repair and regeneration.</p> <p>IL-11 can influence the function of lymphocytes, promoting the proliferation and activation of certain immune cells. It is involved in both acute and chronic inflammatory processes and may contribute to the maintenance of pathological inflammation. After injury and surgery, IL-11 helps promote the proliferation of fibroblasts and collagen synthesis, facilitating tissue healing. IL-11 may have detrimental effects in certain diseases; for instance, in fibrosis, rheumatoid arthritis, and some cancers, its overexpression could lead to pathological conditions.</p> <p>Due to the role of IL-11 in various diseases, researchers are exploring therapeutic strategies targeting IL-11 to develop new drugs, particularly for the treatment of fibrosis and certain types of cancer.</p>

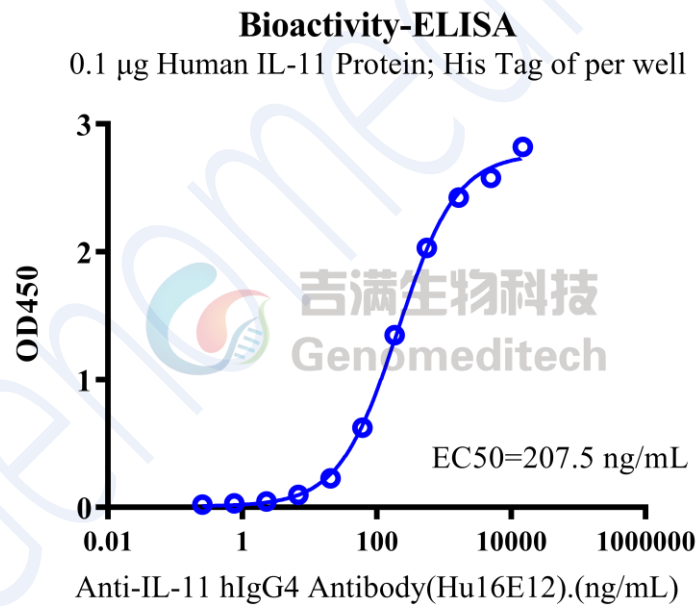
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## SDS-PAGE



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

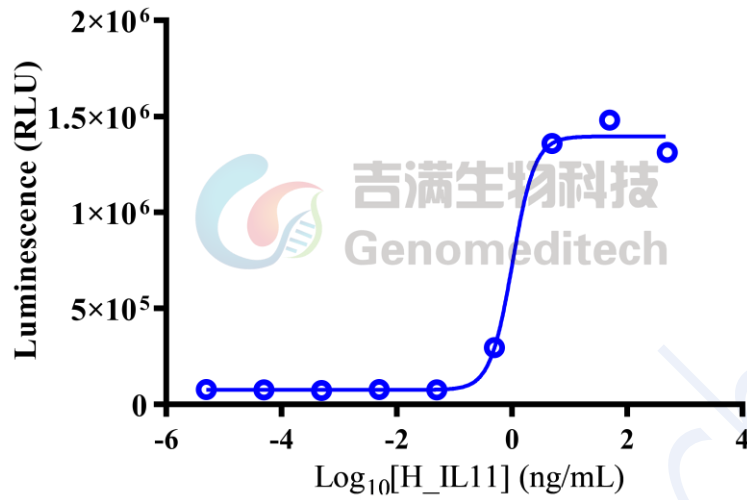
## Bioactivity-ELISA



Human IL-11 Protein; His Tag (Catalog # GM-87734RP) was immobilized at 1  $\mu\text{g}/\text{ml}$  (100  $\mu\text{L}/\text{well}$ ).  
 Increasing concentrations of Anti-IL-11 hIgG4 Antibody(Hu16E12) (Catalog # GM-57288AB) were added.

**Bioactivity CELL BASE**

H\_IL11 Reporter 293 Cell Line



	H_IL11 Reporter 293 Cell Line
EC50	1.024

Human IL-11 Protein; His Tag (Catalog # GM-87734RP) was added into H\_IL11 Reporter 293 Cell Line (Catalog # GM-C27771), and then IL-11/IL-11R signals were stimulated.