

# Biotinylated Human IL-22 Protein; His-Avi Tag

## Product Information

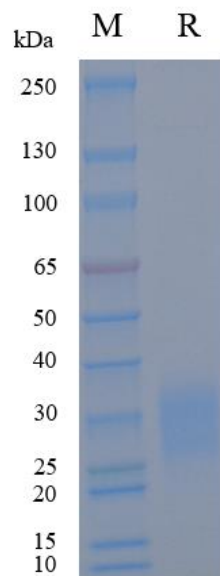
<b>Product Name</b>	Biotinylated Human IL-22 Protein; His-Avi Tag
<b>Storage temp</b>	Store at $\leq -70^{\circ}\text{C}$ , stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
<b>Catalog# / Size</b>	GM-88081RP-25 / 25 $\mu\text{g}$ GM-88081RP-200 / 200 $\mu\text{g}$

## Protein Information

<b>Alternative Names</b>	IL22,IL-TIF,ZCYTO18
<b>Source</b>	Biotinylated Human IL-22 Protein; His-Avi Tag (GM-88081RP) is expressed from human 293 cells (HEK-293). It contains AA Ala 34 - Ile 179 (Accession # Q9GZX6-1). This protein carries a His-Avi tag at the N-terminus.
<b>Purity</b>	> 90% as determined by SDS-PAGE
<b>Endotoxin</b>	< 1 EU/ $\mu\text{g}$ , determined by LAL gel clotting assay
<b>Predicted Mol Mass</b>	19.0 KDa
<b>Formulation</b>	Supplied as a 0.2 $\mu\text{m}$ filtered solution of PBS, pH7.2-7.4.
<b>Description</b>	<p>IL-22 (Interleukin-22) is a cytokine secreted by immune cells, belonging to the family of cytokines produced by <math>\gamma\delta\text{T}</math> cells, TC17 cells, and helper T cells. It mainly acts on epithelial cells, promoting tissue repair and regeneration, enhancing local immune defenses, and playing an important role in antimicrobial and antiviral responses. IL-22 binds to its receptor to activate intracellular signaling pathways, regulating immune responses and inflammation processes. It is crucial for maintaining the integrity of mucosal barriers and defense mechanisms.</p> <p>In addition to its role in immune regulation, IL-22 is also involved in the development of various diseases, including autoimmune diseases, chronic inflammation, and certain types of cancer. Studies have shown that elevated levels of IL-22 are associated with these diseases, and regulating IL-22 may become a new therapeutic strategy. IL-22's structure features characteristic protein domains that ensure its binding to specific receptors and signal transduction, allowing it to exert multiple protective and regulatory effects within the immune system.</p>

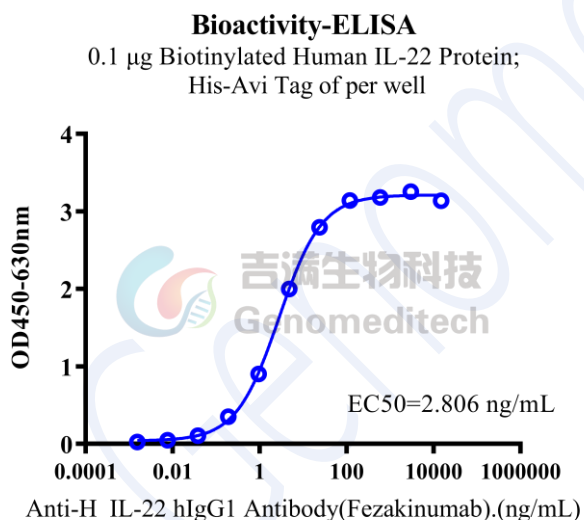
Version:4.0

## SDS-PAGE

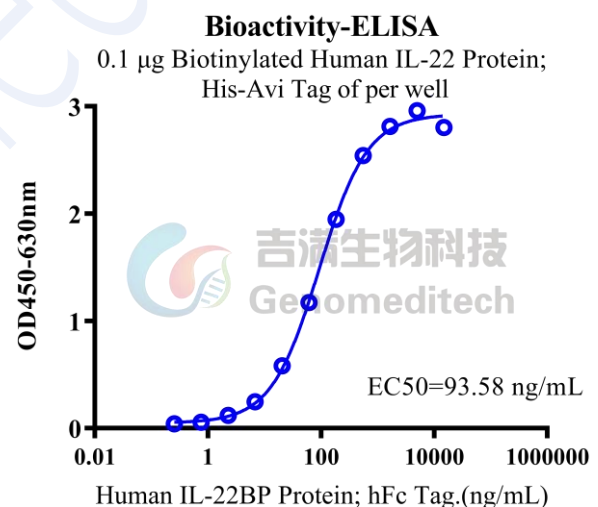


On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

## Bioactivity-ELISA



Biotinylated Human IL-22 Protein; His-Avi Tag (Catalog # GM-88081RP) was immobilized at 1 µg/ml (100 µL/well) on streptavidin precoated. Increasing concentrations of Anti-H\_IL-22 hIgG1 Antibody (Fezakinumab) (Catalog # GM-46509AB) were added.



Biotinylated Human IL-22 Protein; His-Avi Tag (Catalog # GM-88081RP) was immobilized at 1 µg/ml (100 µL/well) on streptavidin precoated. Increasing concentrations of Human IL-22BP Protein; hFc Tag (Catalog # GM-88087RP) were added.