

# Biotinylated Human IL-17RA Protein; His-Avi Tag

## Product Information

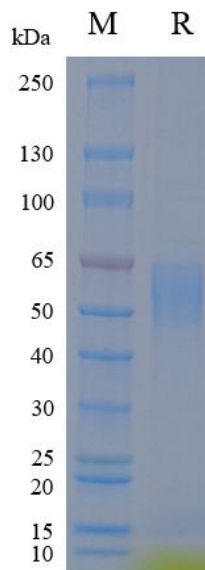
Product Name	Biotinylated Human IL-17RA Protein; His-Avi Tag
Storage temp.	Store at $\leq -70^{\circ}\text{C}$ , stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Catalog# / Size	GM-88050RP-25 / 25 $\mu\text{g}$ GM-88050RP-200 / 200 $\mu\text{g}$

## Protein Information

Alternative Names	CD217,CDw217,IL17RA,IL17R,CANDF5,hIL-17R
Source	Biotinylated Human IL-17RA Protein; His-Avi Tag (GM-88050RP) is expressed from human 293 cells (HEK-293). It contains Leu 33 - Trp 320 (Accession # Q96F46-1). This protein carries a His-Avi tag at the C-terminus.
Purity	> 90% as determined by SDS-PAGE
Endotoxin	< 1 EU/ $\mu\text{g}$ , determined by LAL gel clotting assay
Predicted Mol Mass	36.0 KDa
Formulation	Supplied as a 0.2 $\mu\text{m}$ filtered solution of PBS, pH7.2-7.4.
Description	<p>IL17RA (Interleukin-17 Receptor A) is a transmembrane receptor belonging to the IL-17 receptor family. It is primarily expressed on the surface of immune cells and some non-immune cells. IL17RA serves as the main receptor for IL-17 cytokines, especially IL-17A and IL-17F, mediating the immune responses triggered by these cytokines. Upon binding to IL-17, IL17RA activates a series of signaling pathways that promote inflammatory responses, including the expression of inflammatory factors and the recruitment of immune cells.</p> <p>IL17RA plays a vital role in maintaining immune homeostasis and defending against pathogen infections. However, abnormal IL17RA signaling is also associated with various immune-related diseases, such as inflammatory bowel disease, rheumatoid arthritis, and psoriasis. Research shows that regulating the expression or function of IL17RA can aid in developing therapeutic strategies for these conditions. Clinically, several monoclonal antibodies targeting IL-17 or its receptor have been used to treat certain autoimmune diseases, demonstrating their potential in modern immune therapy.</p>

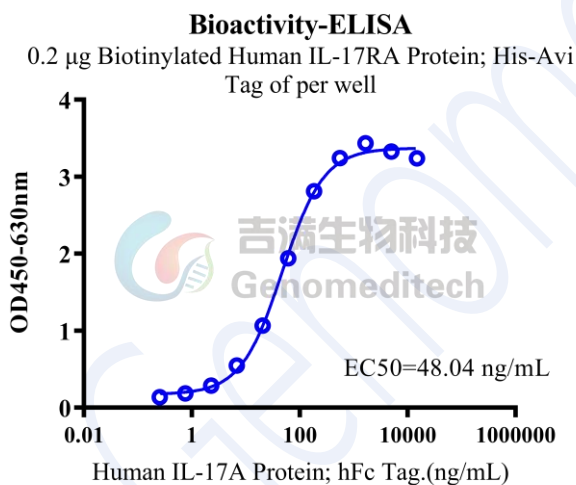
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## SDS-PAGE

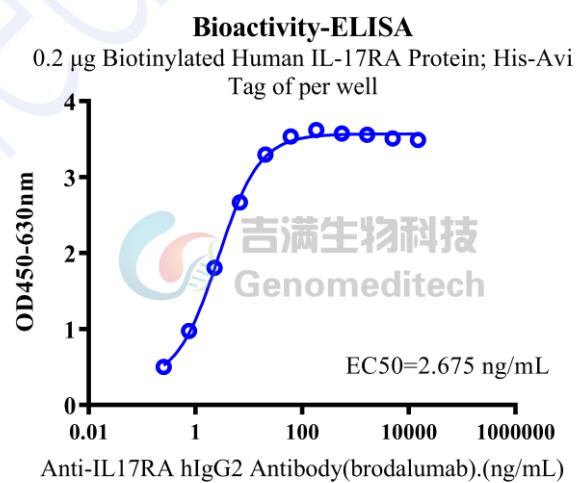


On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

## Bioactivity-ELISA



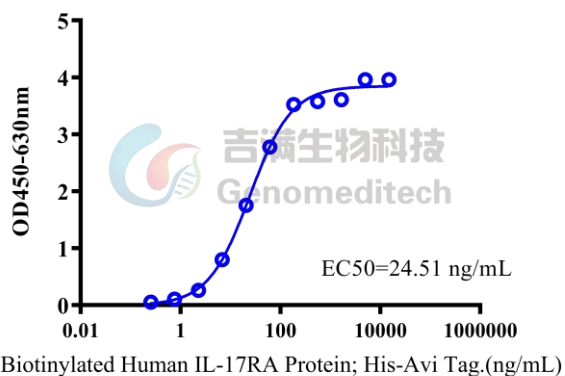
Biotinylated Human IL-17RA Protein; His-Avi Tag (Catalog # GM-88050RP) was immobilized at 2 µg/ml (100 µL/well) on streptavidin precoated. Increasing concentrations of Human IL-17A Protein; hFc Tag (Catalog # GM-88107RP) were added.



Biotinylated Human IL-17RA Protein; His-Avi Tag (Catalog # GM-88050RP) was immobilized at 2 µg/ml (100 µL/well) on streptavidin precoated. Increasing concentrations of Anti-IL17RA hIgG2 Antibody(brodalumab) (Catalog # GM-47619AB) were added.

### Bioactivity-ELISA

0.5  $\mu$ g Anti-IL17RA hIgG2 Antibody(brodalumab) of per well



Anti-IL17RA hIgG2 Antibody(brodalumab) (Catalog # GM-47619AB) was immobilized at 5  $\mu$ g/ml (100  $\mu$ L/well).

Increasing concentrations of Biotinylated Human IL-17RA Protein; His-Avi Tag (Catalog # GM-88050RP) were added.