

# Human IL-1RAP Protein; hFc Tag

## Product Information

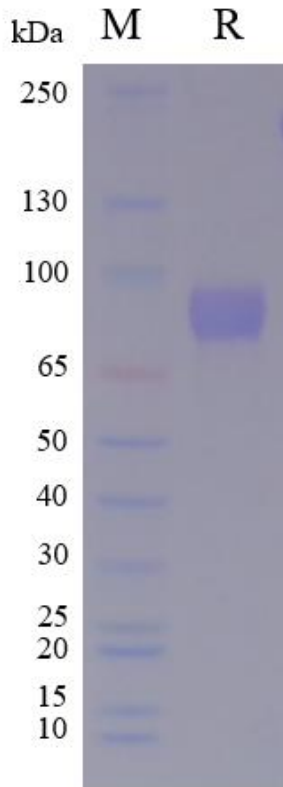
<b>Product Name</b>	Human IL-1RAP Protein; hFc Tag
<b>Storage temp</b>	Store at $\leq -70^{\circ}\text{C}$ , stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
<b>Catalog# / Size</b>	<b>GM-88260RP-100 / 100 <math>\mu\text{g}</math></b> <b>GM-88260RP-1000 / 1 mg</b>

## Protein Information

<b>Alternative Names</b>	IL-1RAcP, C3orf13, IL1R3
<b>Source</b>	Human IL-1RAP Protein; hFc Tag (GM-88260RP) is expressed from human 293 cells (HEK-293). It contains AA Ser 21 - Glu 359 (Accession # Q9NPH3-1). This protein carries a hFc tag at the C-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>	65.1 kDa
<b>Formulation</b>	Supplied as a 0.2 $\mu\text{m}$ filtered solution of PBS, pH7.2-7.4.
<b>Description</b>	IL-1 RAcP (IL-1 receptor accessory protein), also known as IL-1 R3, is a co-receptor that belongs to the interleukin-1 receptor (IL-1R) superfamily. It is encoded by the IL1RAP gene and is a protein associated with the human immune system and inflammatory responses. IL-1 RAcP protein was initially identified in various immune cells and later detected in multiple tissues including epithelial cells, fibroblasts, and endothelial cells. IL-1 RAcP protein regulates the activation of downstream signaling pathways involved in inflammation and immune responses by associating with the IL-1 receptor type I (IL-1R1) and binding to IL-1 cytokines such as IL-1 $\alpha$ and IL-1 $\beta$ . Immune cells and inflammatory mediators are important components of host defense, with critical functions in pathogen clearance, tissue repair, and immune regulation, making them central members of the inflammatory response system. Research indicates that IL-1 RAcP protein plays a significant role in promoting inflammatory signaling, enhancing immune cell activation, and modulating innate immune responses. Additionally, the expression of IL-1 RAcP protein is associated with autoinflammatory diseases, rheumatoid arthritis, and other inflammatory disorders, as well as cancer progression, making it a potential target for immunotherapy and anti-inflammatory therapy.

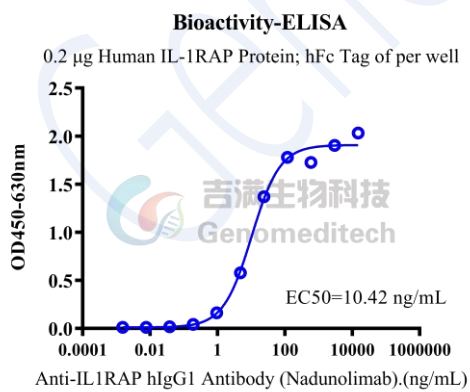
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## SDS-PAGE



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-1RAP Protein; hFc Tag (Catalog # GM-88260RP) was immobilized at 2  $\mu$ g/ml (100  $\mu$ L/well). Increasing concentrations of Anti-IL1RAP hIgG1 Antibody (Nadunolimab) (Catalog # GM-88204AB) were added.