

Human IL-1RI&IL-1RAP Heterodimer Protein; hFc Tag (Goflikicept)

Product Information

Product Name Human IL-1RI&IL-1RAP Heterodimer Protein; hFc Tag (Goflikicept)

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-88287RP-100 / 100 μg
GM-88287RP-1000 / 1 mg

Protein Information

Alternative Names IL-1RI&IL-1RAP Heterodimer

Source Human IL-1RI&IL-1RAP Heterodimer Protein; hFc Tag (Goflikicept) (GM-88287RP) is expressed from human 293 cells (HEK-293). It contains AA(IL-1RI) Asp 21 -Asn 333 (Accession # P14778) and AA(IL-1RAP) Ser 21 - Val 358 (Accession # Q9NPH3-1).

This protein carries hFc tag at the C-terminus of IL-1RI and IL-1RAP.

Purity > 90% as determined by SDS-PAGE

Endotoxin < 1 EU/ μg , determined by LAL gel clotting assay

Predicted Mol Mass 126.4KDa (61.6 KDa (IL-1RI) and 64.8 KDa (IL-1RAP))

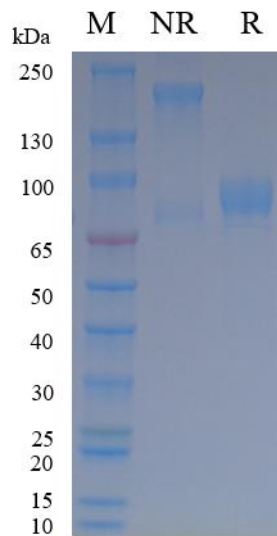
Formulation Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.

Description Interleukin-1 receptor type I (IL-1RI) is a transmembrane receptor that serves as the primary signal-transducing component for two pro-inflammatory cytokines, IL-1 α and IL-1 β . Upon binding of IL-1 α or IL-1 β , IL-1RI recruits the IL-1 receptor accessory protein (IL-1RAP) to form a signaling complex, which activates downstream pathways such as NF- κB and MAPKs. This leads to the transcription of inflammatory genes and amplification of the innate immune response, playing a central role in fever, leukocyte recruitment, and tissue inflammation.

Interleukin-1 receptor accessory protein (IL-1RAP) is an essential coreceptor that partners with IL-1RI to initiate IL-1-mediated signaling. After IL-1 α or IL-1 β binds to IL-1RI, IL-1RAP associates with the receptor complex, enabling adaptor proteins (e.g., MyD88) to propagate intracellular signals. IL-1RAP modulates the intensity and duration of inflammatory responses and is a potential target for therapeutics aiming to curb excessive inflammation in diseases such as autoinflammatory disorders and sepsis.

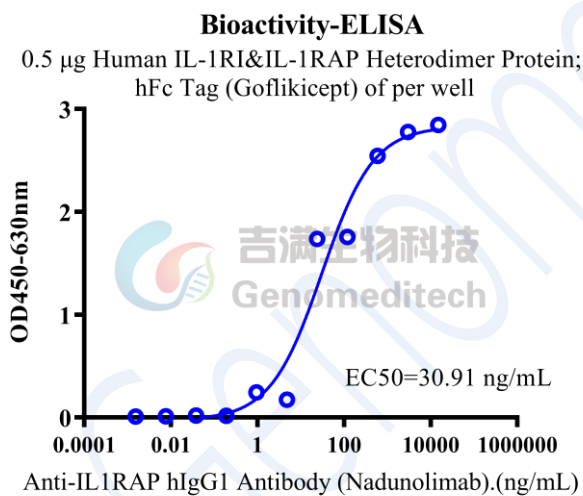
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SDS-PAGE

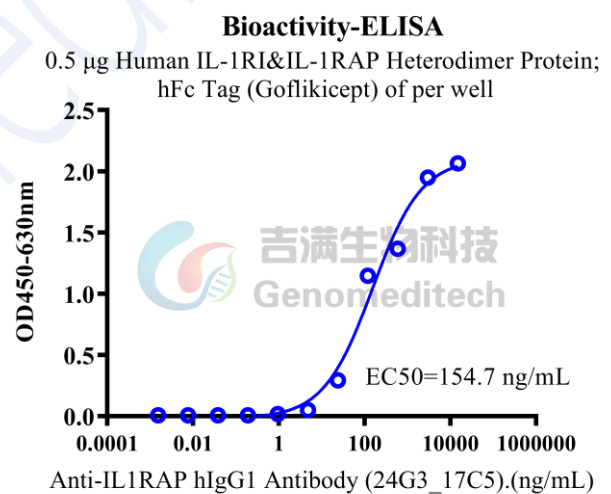


On SDS-PAGE under non-reducing (NR) condition and reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

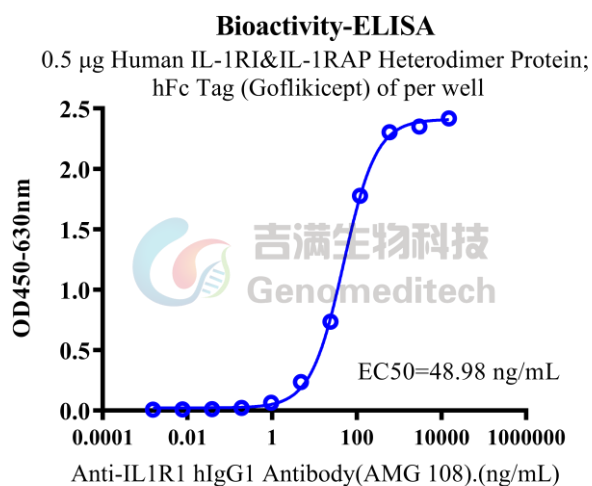
Bioactivity-ELISA



Human IL-1RI&IL-1RAP Heterodimer Protein; hFc Tag (Goflikicept) (Catalog # GM-88287RP) was immobilized at 5 µg/ml (100 µL/well). Increasing concentrations of Anti-IL1RAP hIgG1 Antibody (Nadunolimab) (Catalog # GM-88204AB) were added.



Human IL-1RI&IL-1RAP Heterodimer Protein; hFc Tag (Goflikicept) (Catalog # GM-88287RP) was immobilized at 5 µg/ml (100 µL/well). Increasing concentrations of Anti-IL1RAP hIgG1 Antibody (24G3_17C5) (Catalog # GM-88261AB) were added.



Human IL-1RI&IL-1RAP Heterodimer Protein; hFc Tag (Goflikicept) (Catalog # GM-88287RP) was immobilized at 5 μ g/ml (100 μ L/well). Increasing concentrations of Anti-IL1R1 hIgG1 Antibody(AMG 108) (Catalog # GM-51990AB) were added.