

Human IL-1RI Protein; His Tag

Product Information

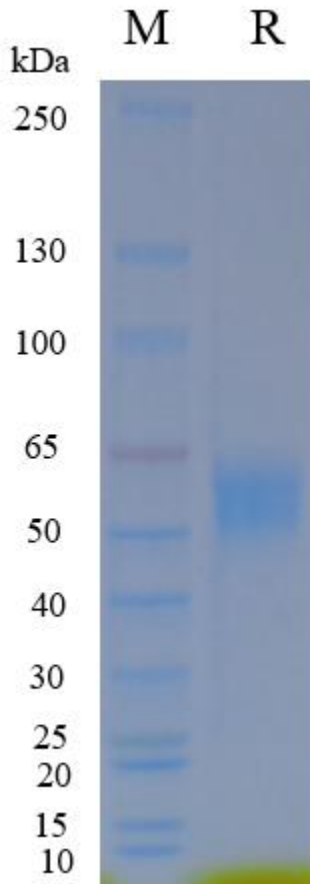
Product Name	Human IL-1RI Protein; His Tag
Storage temp	Store at $\leq -70^{\circ}\text{C}$, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Catalog# / Size	GM-88670RP-100 / 100 μg GM-88670RP-1000 / 1 mg

Protein Information

Alternative Names	IL-1 RI
Source	Human IL-1RI Protein; His Tag (GM-88670RP) is expressed from human 293 cells (HEK-293). It contains AA Leu 18 - Lys 336 (Accession # P14778). This protein carries a His tag at the C-terminus.
Purity	> 95% as determined by SDS-PAGE
Endotoxin	< 1 EU/ μg , determined by LAL gel clotting assay
Predicted Mol Mass	37.5 kDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.
Description	IL-1RI protein, full name Interleukin-1 Receptor Type I, is an important cell surface transmembrane receptor protein and a member of the Toll-like/IL-1 receptor (TIR) superfamily. IL-1RI protein plays a crucial role in regulating inflammatory responses and host defense by serving as the primary signaling receptor for the pro-inflammatory cytokines IL-1α and IL-1β in normal physiological conditions. Abnormal expression or dysregulated signaling of IL-1RI protein is closely associated with the pathogenesis and progression of various inflammatory, autoimmune, and autoinflammatory diseases, particularly rheumatoid arthritis, gout, and cryopyrin-associated periodic syndromes (CAPS). Currently, several IL-1RI-targeted therapeutic strategies have been developed and are widely used in clinical practice. These include Anakinra, a recombinant IL-1 receptor antagonist (IL-1Ra) that competes with IL-1 for receptor binding; Canakinumab, a neutralizing anti-IL-1β monoclonal antibody; and Rilonacept, an IL-1RI decoy receptor fusion protein. In summary, IL-1RI protein plays a pivotal role in the initiation and regulation of inflammatory responses and immune defense, and is of great significance for understanding disease pathogenesis, selecting targeted treatment strategies, and evaluating patient prognosis.

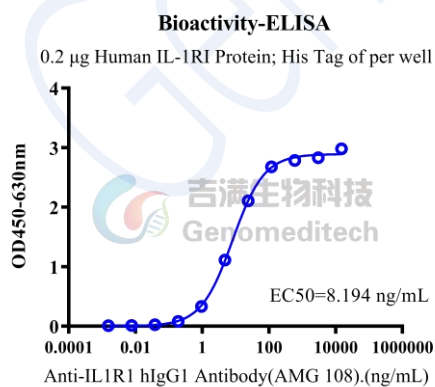
Version:4.0

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 95%.

Bioactivity-ELISA



Human IL-1RI Protein; His Tag (Catalog # GM-88670RP) was immobilized at 2 μ g/ml (100 μ L/well). Increasing concentrations of Anti-IL1R1 hIgG1 Antibody(AMG 108) (Catalog # GM-51990AB) were added.