

Human IL-18R beta Protein; His Tag

Product Information

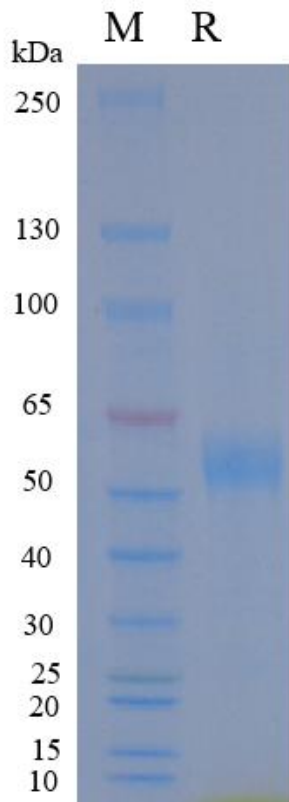
Product Name	Human IL-18R beta Protein; His Tag
Storage temp	Store at $\leq -70^{\circ}\text{C}$, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Catalog# / Size	GM-88669RP-100 / 100 μg GM-88669RP-1000 / 1 mg
------------------------	---

Protein Information

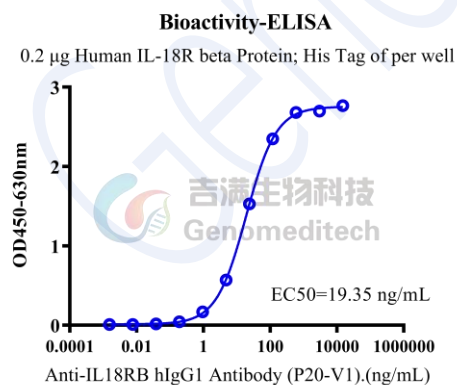
Alternative Names	IL-1 R7, CD218b, CDw218b, IL-1 R7, IL-18 R beta, IL-18RAcP
Source	Human IL-18R beta Protein; His Tag (GM-88669RP) is expressed from human 293 cells (HEK-293). It contains AA Phe 20 - Arg 356 (Accession # O95256-1). This protein carries a His tag at the C-terminus.
Purity	> 95% as determined by SDS-PAGE
Endotoxin	< 1 EU/ μg , determined by LAL gel clotting assay
Predicted Mol Mass	39.3 kDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.
Description	IL-18R beta protein, full name Interleukin-18 Receptor Beta, is an important cell surface receptor protein and a member of the interleukin-1 receptor (IL-1R) superfamily. This receptor complex plays a crucial role in regulating innate and adaptive immune responses, particularly in inducing interferon-gamma (IFN-γ) production from T cells and natural killer (NK) cells, thereby promoting Th1-type immune responses in normal physiological conditions. Dysregulated expression or aberrant signaling of IL-18R beta protein is closely associated with the pathogenesis and progression of various inflammatory, autoimmune, and malignant diseases, particularly inflammatory bowel disease, rheumatoid arthritis, and certain cancers. Currently, several therapeutic strategies targeting the IL-18/IL-18R axis have been developed or are under clinical investigation. IL-18 binding protein (IL-18BP) and anti-IL-18 monoclonal antibodies, which neutralize IL-18 signaling, have shown promise in treating inflammatory and autoimmune diseases. In summary, IL-18R beta protein plays a pivotal role in the development and progression of inflammatory, autoimmune, and neoplastic diseases, and is of great significance for understanding disease pathogenesis, selecting targeted treatment strategies, and evaluating patient prognosis.

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-18R beta Protein; His Tag (Catalog # GM-88669RP) was immobilized at 2 µg/ml (100 µL/well). Increasing concentrations of Anti-IL18RB hIgG1 Antibody (P20-V1) (Catalog # GM-88328AB) were added.