

Human IL-18BP Protein; His Tag

Product Information

Product Name	Human IL-18BP 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-88667RP-100 / 100 μg GM-88667RP-1000 / 1 mg

Protein Information

Alternative Names	IL18BP α , Tadekinig-alfa
Source	Human IL-18BP Protein; His Tag (GM-88667RP) is expressed from human 293 cells (HEK-293). It contains AA Thr 31 - Gly 194 (Accession # O95998-2). This protein carries a His tag at the C-terminus.
Purity	> 90% as determined by SDS-PAGE
Endotoxin	< 1 EU/ μg , determined by LAL gel clotting assay
Predicted Mol Mass	18.5 kDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.
Description	<p>IL-18BP protein, full name Interleukin-18 Binding Protein, is an important soluble secreted protein and a member of the immunoglobulin superfamily. IL-18BP protein plays a crucial role in regulating immune responses by acting as a natural decoy receptor that binds to interleukin-18 (IL-18) with high affinity, thereby neutralizing its pro-inflammatory activity and maintaining immune homeostasis in normal physiological conditions.</p> <p>Currently, several therapeutic strategies targeting the IL-18/IL-18BP axis are under investigation in preclinical and clinical settings, including recombinant IL-18BP proteins, neutralizing antibodies against IL-18, and small-molecule inhibitors aimed at restoring IL-18 bioactivity. These agents have shown potential in treating autoimmune diseases such as adult-onset Still's disease, rheumatoid arthritis, and inflammatory bowel disease, as well as in enhancing antitumor immunity in combination with immune checkpoint inhibitors.</p> <p>In summary, IL-18BP protein plays a pivotal role in regulating inflammation and immune responses, and is of great significance for understanding the pathogenesis of immune-mediated diseases, developing targeted immunomodulatory therapies, and evaluating patient prognosis in both inflammatory and malignant conditions.</p>

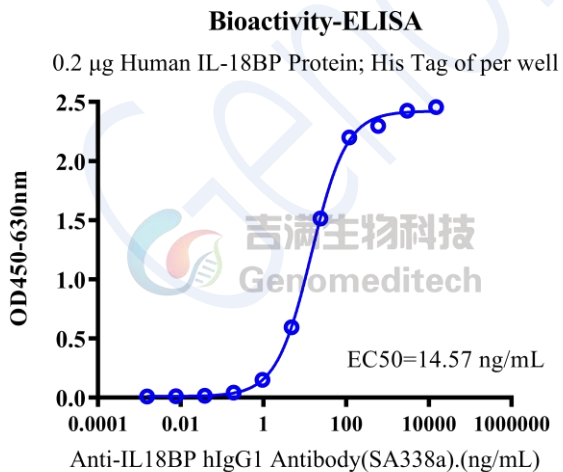
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SDS-PAGE



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



Human IL-18BP Protein; His Tag (Catalog # GM-88667RP) was immobilized at 2 µg/ml (100 µL/well). Increasing concentrations of Anti-IL18BP hIgG1 Antibody (SA338a) (Catalog # GM-88329AB) were added.