

Human IL-18BP Protein; hFc Tag

Product Information

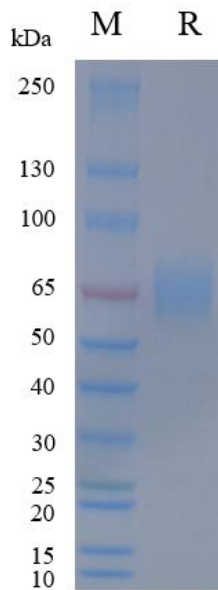
Product Name	Human IL-18BP Protein; hFc Tag
Storage temp	Store at $\leq -70^{\circ}\text{C}$, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Catalog# / Size	GM-88315RP-100 / 100 μg GM-88315RP-1000 / 1 mg

Protein Information

Alternative Names	IL18BP, IL18BP α , IL-18 binding protein
Source	Human IL-18BP Protein; hFc Tag (GM-88315RP) is expressed from human 293 cells (HEK-293). It contains AA Thr 31 - Gly 194 (Accession # O95998-2). This protein carries a hFc 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	43.6 KDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.
Description	IL-18 binding protein (IL-18BP) is a natural inhibitor of the proinflammatory cytokine IL-18. It binds IL-18 with high affinity, preventing IL-18 from engaging its receptor IL-18Rα/β and dampening IL-18-mediated signaling. IL-18BP exists in multiple isoforms produced by alternative splicing, and its expression can be induced by inflammatory stimuli such as IL-18 itself, interferons, and other danger signals. By neutralizing IL-18, IL-18BP regulates innate and adaptive immune responses and has been explored as a therapeutic strategy in IL-18-driven diseases. IL-18 signals through a receptor complex of IL-18Rα and IL-18Rβ, recruiting MyD88 and activating downstream NF-κB and MAPK pathways to drive proinflammatory gene transcription. IL-18BP inhibits this axis, reducing cytokine production (e.g., IFN-γ, TNF-α) and attenuating inflammasome-related responses. Tadekinig-alfa is a recombinant human IL-18BP (a high-affinity fusion protein) developed to neutralize IL-18 activity in hyperinflammatory conditions such as macrophage activation syndrome and adult-onset Still's disease, showing potential to modulate exaggerated IL-18 signaling in patients.

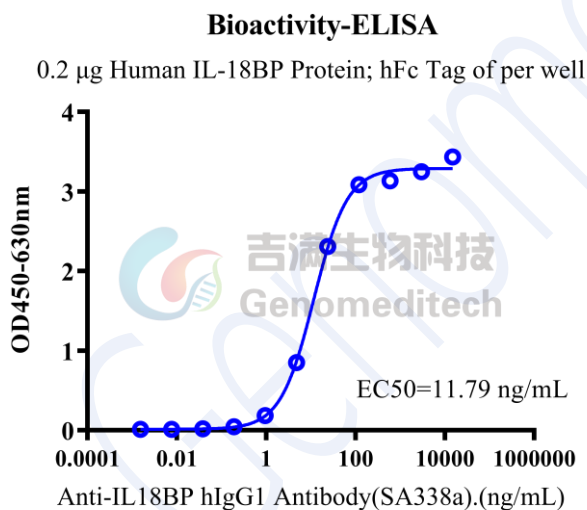
Version:4.0

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-18BP Protein; hFc Tag (Catalog # GM-88315RP) was immobilized at 2 μ g/ml (100 μ L/well). Increasing concentrations of Anti-IL18BP hIgG1 Antibody(SA338a) (Catalog # GM-88329AB) were added.