

# Biotinylated Human IL-18BP Protein; His-Avi Tag

## Product Information

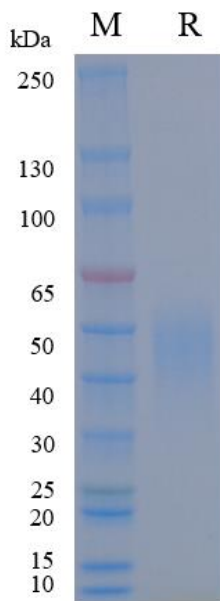
Product Name	Biotinylated Human IL-18BP Protein; His-Avi Tag
Storage temp	Store at $\leq -70^{\circ}\text{C}$ , stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Catalog# / Size	GM-88325RP-25 / 25 $\mu\text{g}$ GM-88325RP-200 / 200 $\mu\text{g}$

## Protein Information

Alternative Names	IL18BP, IL18BP $\alpha$ , IL-18 binding protein, Tadekinig-alfa
Source	Biotinylated Human IL-18BP Protein; His-Avi Tag (GM-88325RP) is expressed from human 293 cells (HEK-293). It contains AA Thr 31 - Gly 194 (Accession # O95998-2). This protein carries a His-Avi tag at the C-terminus.
Purity	> 95% as determined by SDS-PAGE
Endotoxin	< 1 EU/ $\mu\text{g}$ , determined by LAL gel clotting assay
Predicted Mol Mass	20.3 KDa
Formulation	Supplied as a 0.2 $\mu\text{m}$ filtered solution of PBS, pH7.2-7.4.
Description	<p>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-18R<math>\alpha/\beta</math> 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.</p> <p>IL-18 signals through a receptor complex of IL-18R<math>\alpha</math> and IL-18R<math>\beta</math>, recruiting MyD88 and activating downstream NF-<math>\kappa</math>B and MAPK pathways to drive proinflammatory gene transcription. IL-18BP inhibits this axis, reducing cytokine production (e.g., IFN-<math>\gamma</math>, TNF-<math>\alpha</math>) 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.</p>

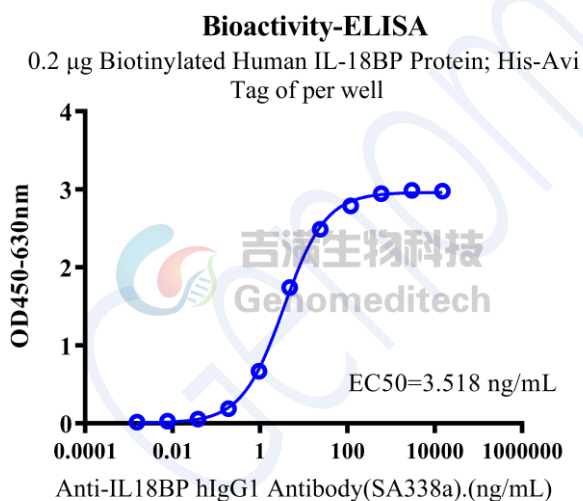
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## SDS-PAGE



On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

## Bioactivity-ELISA



Biotinylated Human IL-18BP Protein; His-Avi Tag (Catalog # GM-88325RP) was immobilized at 2 µg/ml (100 µL/well) on streptavidin precoated. Increasing concentrations of Anti-IL18BP hIgG1 Antibody(SA338a) (Catalog # GM-88329AB) were added.