

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°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 μ g

GM-88325RP-200 / 200 μ g

Protein Information

Alternative Names IL18BP, IL18BPa, 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/ μ g, determined by LAL gel clotting assay

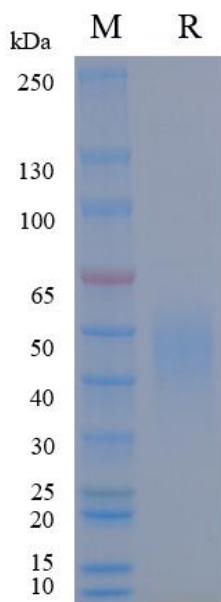
Predicted Mol Mass 20.3 KDa

Formulation Supplied as a 0.2 μ m 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-18R α / 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-18R α and IL-18R β , recruiting MyD88 and activating downstream NF- κ B 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.

SDS-PAGE

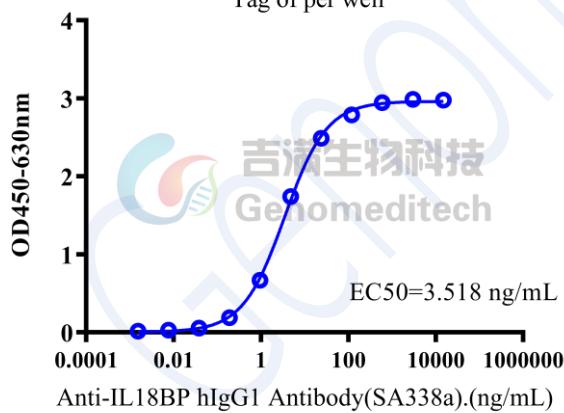


On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA

Bioactivity-ELISA

0.2 μ g Biotinylated Human IL-18BP Protein; His-Avi Tag of per well



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