

Human IL-22BP Protein; His Tag

Product Information

Product Name	Human IL-22BP 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-88673RP-100 / 100 μg GM-88673RP-1000 / 1 mg

Protein Information

Alternative Names	IL22RA2, CRF2-S1, CRF2-10, CRF2-S1
Source	Human IL-22BP Protein; His Tag (GM-88673RP) is expressed from human 293 cells (HEK-293). It contains AA Thr 22 - Pro 231 (Accession # Q969J5-2). 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	25.5 kDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH 7.2–7.4.
Description	IL-22 Binding Protein (IL22BP) is a soluble receptor belonging to the IL-10 receptor family, encoded by the IL22RA2 gene. It specifically binds to the cytokine IL-22 with high affinity and negatively regulates IL-22's biological functions by competitively inhibiting its interaction with the membrane-bound signaling receptor complex (composed of IL-10R2 and IL-22R1). IL22BP itself does not directly transduce signals but indirectly modulates downstream pathways by neutralizing IL-22. Upon binding to IL-22, it prevents the activation of the JAK-STAT signaling pathway (primarily involving phosphorylation of JAK1/TYK2 kinases and subsequent STAT3 activation). This inhibition blocks the nuclear translocation of STAT3 and its initiation of target gene transcription, ultimately suppressing IL-22-mediated effects such as epithelial cell proliferation, antimicrobial peptide production, and mucosal barrier repair. Thus, IL22BP serves as a crucial upstream regulator of the IL-22/STAT3 pathway.

Figures

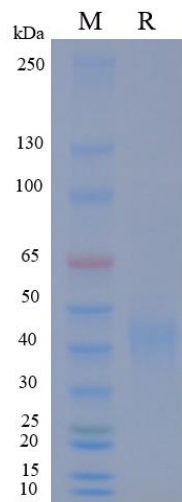


Figure 1 | On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

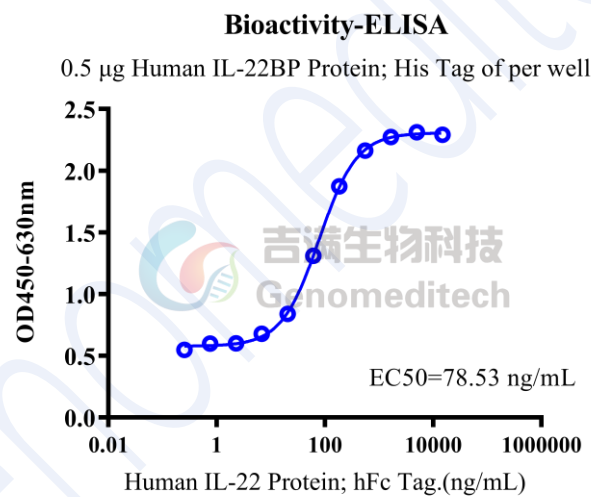


Figure 2 | Human IL-22BP Protein; His Tag (Catalog # GM-88673RP) was immobilized at 5 μ g/ml (100 μ L/well). Increasing concentrations of Human IL-22 Protein; hFc Tag (Catalog # GM-88672RP) were added.

Related Products

IL-22	
H_IL22RA IL10RB BAF3 Cell Line	H_IL22RA IL20RB BAF3 Cell Line
Cynomolgus_IL22 Reporter 293 Cell Line	H_IL19 IL20 IL24 Reporter 293 Cell Line
H_IL20 IL22 IL24 Reporter 293 Cell Line	H_IL22 Reporter 293 Cell Line
Cynomolgus_IL22R HEK-293 Cell Line	H_IL22R CHO-K1 Cell Line
H_IL22R HEK-293 Cell Line	Mouse_IL22R HEK-293 Cell Line
Anti-H_IL-22 hIgG1 Antibody(Fezakinumab)	Anti-H_IL-22R1 hIgG1 Antibody(ARGX-112)
Anti-IL-22RA hIgG1 Antibody (280.346.TSY)	Anti-IL-22RA hIgG1 Reference Antibody (Temtobio)
Biotinylated Human IL-22 Protein; His-Avi Tag	Human IL-22 Protein; hFc Tag
Human IL-22 Protein; His Tag	Human IL-22BP Protein; hFc Tag
Mouse IL-22RA1 Protein; His Tag	