Genomeditech (Shanghai) Co.,Ltd.
Order: 021-68455258/50432826/50432825

Toll-free: 400 627 9288

Email: service@genomeditech.com

Human IL-22BP Protein; hFc Tag

Product Information

Product Name Human IL-22BP Protein; hFc 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-88087RP-100 / 100 μg

GM-88087RP-1000 / 1 mg

Protein Information

Alternative Names IL22RA2,CRF2-S1,IL-22BP,CRF2-10,CRF2-S1

Source Human IL-22BP Protein; hFc Tag (GM-88087RP) is expressed from human 293

cells (HEK-293). It contains AA Thr 22 - Pro 231 (Accession # Q969J5-2).

This protein carries a hFc 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 50.0 KDa

Formulation Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.

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). This protein plays a critical role in maintaining immune homeostasis, inflammatory responses, and tissue repair, while its dysregulation is closely associated with various

diseases such as psoriasis, colitis, and cancer.

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

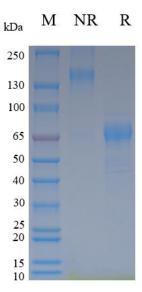
pathway.

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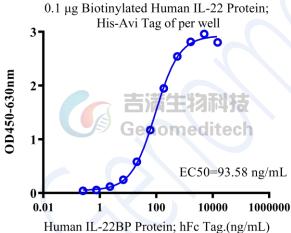
SDS-PAGE



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

Bioactivity-ELISA





Biotinylated Human IL-22 Protein; His-Avi Tag (Catalog # GM-88081RP) was immobilized at 1 μ g/ml (100 μ L/well) on streptavidin precoated. Increasing concentrations of Human IL-22BP Protein; hFc Tag (Catalog # GM-88087RP) were added.