

IL-22R alpha 1 & IL-10R beta Protein, Human (Biotinylated, HEK293, hFc-Avi)

Cat. No.:	HY-P700872
Synonyms:	IL-22R alpha 1; IL-10R beta; IL-22R α 1&IL-10R β
Species:	Human
Source:	HEK293
Accession:	Q8N6P7 (H16-T228)&Q08334 (M20-S220)
Gene ID:	58985&3588
Molecular Weight:	68-75 kDa

PROPERTIES

Biological Activity	Immobilized Human IL-22, His Tag at 5 μ g/ml (100 μ l/well) on the plate. Dose response curve for Biotinylated Human IL-22R alpha1&IL-10R beta, hFc Tag with the EC ₅₀ of 0.63 μ g/ml determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μ m filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	IL-22R alpha 1, in conjunction with IL-10R beta, serves as a critical component of the receptor complexes for IL20, IL22, and IL24, orchestrating diverse signaling pathways. As part of the IL22 receptor, formed by the association of IL22RA1 and IL10RB, IL-22R alpha 1 enables IL22 signaling through the JAK/STAT pathways, concurrently triggering the activation of MAPK1/MAPK3 and Akt kinases. Additionally, IL-22R alpha 1, in collaboration with IL20RB, constitutes one of the receptors for IL20 and IL24, eliciting STATs activation. The receptor complex, particularly IL-22R alpha 1, plays a pivotal role in mediating IL24's antiangiogenic effects and its inhibitory impact on endothelial cell tube formation and differentiation. In its functional state, IL-22R alpha 1 forms heterodimers with IL10RB and IL20RB, with IL22 exhibiting a higher binding affinity to the heterodimer than to IL22RA1 alone. Furthermore, the interaction between IL-22R alpha 1 and FBXW12 promotes the ubiquitination of IL22RA1, adding a regulatory layer to its function.
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Caution: Product has not been fully validated for medical applications. For research use only.

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