

IL-22R alpha 1 Protein, Mouse (HEK293, Fc)

Cat. No.:	HY-P77969
Synonyms:	IL-22R-alpha-1; IL-22RA1; CRF2-9; IL22R; IL22R1; IL-TIF-R1; zcytoR11
Species:	Mouse
Source:	HEK293
Accession:	Q80XZ4 (H16-A228)
Gene ID:	230828
Molecular Weight:	65-68 kDa

PROPERTIES

Biological Activity	Immobilized Biotinylated Mouse IL-22, His Tag at 2µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Mouse IL-22R alpha 1, hFc Tag with the EC ₅₀ of 6.2ng/ml determined by ELISA.
Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	IL-22R alpha 1, a key component of the receptor for IL20, IL22, and IL24, plays a crucial role in mediating the signaling pathways activated by these interleukins. It forms a heterodimer with IL10RB, constituting the IL22 receptor and facilitating IL22 signaling via JAK/STAT pathways. IL-22R alpha 1 is also part of another receptor complex, along with IL20RB, responding to IL20 and IL24, leading to the activation of STATs. Beyond JAK/STAT pathways, IL-22 induces MAPK1/MAPK3 and Akt kinases activation. Notably, IL-22R alpha 1 contributes to the antiangiogenic activity of IL24 and inhibits endothelial cell tube formation and differentiation induced by IL24. In its functional heterodimeric associations with IL10RB and IL20RB, IL-22R alpha 1 underscores its pivotal role in mediating the diverse cellular responses to IL20, IL22, and IL24.
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Caution: Product has not been fully validated for medical applications. For research use only.

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