

IL-22R alpha 1 Protein, Cynomolgus (HEK293, His)

Cat. No.:	HY-P700744
Synonyms:	IL-22R-alpha-1; IL-22RA1; CRF2-9; IL22R; IL22R1; IL-TIF-R1; zcytoR11
Species:	Cynomolgus
Source:	HEK293
Accession:	A0A2K5TKX9 (P18-T225)
Gene ID:	102117911
Molecular Weight:	38-48 kDa

PROPERTIES

Biological Activity	Cynomolgus IL-22R alpha 1, His Tag immobilized on CM5 Chip can bind Cynomolgus IL-22, His Tag with an affinity constant of 58-61 nM as determined in SPR assay (Biacore T200).
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/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, 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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