

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

Cat. No.:	HY-P77967
Synonyms:	IL-22R-alpha-1; IL-22RA1; CRF2-9; IL22R; IL22R1; IL-TIF-R1; zcytoR11
Species:	Human
Source:	HEK293
Accession:	Q8N6P7 (H16-T228)
Gene ID:	58985
Molecular Weight:	60-68 kDa

PROPERTIES

AA Sequence	<p>H A P E D P S D L L</p> <p>Q H V K F Q S S N F E N I L T W D S G P E G T P D T V Y S I E</p> <p>Y K T Y G E R D W V A K K G C Q R I T R K S C N L T V E T G N L T E L Y Y A R V</p> <p>T A V S A G G R S A T K M T D R F S S L Q H T T L K P P D V T C I S K V R S I Q</p> <p>M I V H P T P T P I R A G D G H R L T L E D I F H D L F Y H L E L Q V N R T Y Q</p> <p>M H L G G K Q R E Y E F F G L T P D T E F L G T I M I C V P T W A K E S A P Y M</p> <p>C R V K T L P D R T W T</p>
Biological Activity	<p>1. Immobilized Human IL-22, His Tag at 2 µg/ml (100 µl/Well) on the plate. Dose response curve for Human IL-22R alpha 1, hFc Tag with the EC₅₀ of 10.2 ng/ml determined by ELISA.</p> <p>2. Immobilized Human IL-22R alpha 1, hFc Tag at 0.5 µg/mL (100 µl/well) on the plate. Dose response curve for Biotinylated Anti-IL-22R alpha 1 Antibody, hFc Tag with the EC₅₀ of 11.2-18.4 ng/ml determined by ELISA.</p>
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 (IL22RA1) Protein is a single-pass type I membrane protein. IL-22R alpha 1 expresses in colon, liver, lung, pancreas and kidney. IL-22R alpha 1 is primarily present on epithelial cells and certain monocyte subsets, and very limited IL-22R alpha 1 expression is found on other immune cells^{[1][2]}.

The sequence of amino acids in IL-22R alpha 1 from different species is very different (less than 85% similarity among human, rat and Canine).

IL-22R alpha 1 is an essential component of the high-affinity IL-22 receptor enabling IL-22 signaling via JAK/STAT pathways. IL-22R alpha 1 is a component of one of the receptors for IL-20 and IL-24 formed and signaling through STATs activation. IL-22R alpha 1 mediates IL-24 antiangiogenic activity as well as IL24 inhibitory effect on endothelial cell tube formation and differentiation^{[2][3]}.

REFERENCES

- [1]. Cui X, et, al. IL22 furthers malignant transformation of rat mesenchymal stem cells, possibly in association with IL22RA1/STAT3 signaling. *Oncol Rep.* 2019 Apr;41(4):2148-2158.
- [2]. Kragstrup TW, et, al. The IL-20 Cytokine Family in Rheumatoid Arthritis and Spondyloarthritis. *Front Immunol.* 2018 Sep 25;9:2226.
- [3]. Persaud L, et, al. Mechanism of Action and Applications of Interleukin 24 in Immunotherapy. *Int J Mol Sci.* 2016 Jun 2;17(6):869.
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Caution: Product has not been fully validated for medical applications. For research use only.

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