

IL-21R Protein, Human (217a.a, HEK293, Fc)

Cat. No.:	HY-P77714
Synonyms:	IL-21 receptor; IL-21R; CD360; NILR
Species:	Human
Source:	HEK293
Accession:	Q9HBE5 (C20-P236)
Gene ID:	50615
Molecular Weight:	60-70 kDa

PROPERTIES

Biological Activity	Measured by its binding ability in a functional ELISA. When immobilized Human IL-21 at 2 µg/mL (100µL/Well), can bind Human IL-21R with the EC ₅₀ of <62.4 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 5% 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	The IL-21R protein serves as a receptor for interleukin-21. It forms a heterodimer with the common gamma subunit and associates with Janus kinase 1 (JAK1). Through this interaction, the receptor facilitates the signaling cascade initiated by interleukin-21, a cytokine with diverse immunoregulatory functions. The formation of the IL-21R heterodimer and its association with JAK1 are pivotal steps in transducing the cellular responses triggered by interleukin-21, contributing to the regulation of immune processes and inflammatory pathways.
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Caution: Product has not been fully validated for medical applications. For research use only.

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