

## Active Recombinant Human IL21R, HlgG1 Fc-tagged

**Cat. No.** IL21R-146H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	The extracellular domain of human IL-21R (NP_851564.1)(Cys20-Glu232) is fused to the N-terminus of the Fc region of human IgG1 was expressed in CHO cell
<b>Species</b>	Human
<b>Source</b>	CHO
<b>Protein Length</b>	20-232 a.a.
<b>Description</b>	The protein encoded by this gene is a cytokine receptor for interleukin 21 (IL21). It belongs to the type I cytokine receptors, and has been shown to form a heterodimeric receptor complex with the common gamma-chain, a receptor subunit also shared by the receptors for interleukin 2, 4, 7, 9, and 15. This receptor transduces the growth promoting signal of IL21, and is important for the proliferation and differentiation of T cells, B cells, and natural killer (NK) cells. The ligand binding of this receptor leads to the activation of multiple downstream signaling molecules, including JAK1, JAK3, STAT1, and STAT3. Knockout studies of a similar gene in mouse suggest a role for this gene in regulating immunoglobulin production. Three alternatively spliced transcript variants have been described.
<b>Form</b>	Lyophilized from 0.2µm-filtered solution in PBS.
<b>Bio-activity</b>	Measured by its ability to inhibit IL-21-dependent proliferation of N1186 human T cells.

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<b>Molecular Mass</b>	54KDa (monomer)
<b>AA Sequence</b>	Cys20-Glu232
<b>Endotoxin</b>	<0.06 eu/μg="" as="" determined="" by="" lal="" test="">
<b>Purity</b>	>98%, by SDS-PAGE under reducing conditions.
<b>Stability</b>	Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.
<b>Reconstitution</b>	Reconstitute at 100μg/ml in sterile PBS.
<b>Warning</b>	Avoid freeze/thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	IL21R interleukin 21 receptor [ Homo sapiens ]
<b>Official Symbol</b>	IL21R
<b>Synonyms</b>	IL21R; interleukin 21 receptor; interleukin-21 receptor; CD360; IL-21R; IL-21 receptor; novel interleukin receptor; NILR; MGC10967;
<b>Gene ID</b>	50615
<b>mRNA Refseq</b>	NM_021798
<b>Protein Refseq</b>	NP_068570
<b>MIM</b>	605383

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<b>UniProt ID</b>	Q9HBE5
<b>Chromosome Location</b>	16p11
<b>Pathway</b>	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Jak-STAT signaling pathway, organism-specific biosystem; Jak-STAT signaling pathway, conserved biosystem;
<b>Function</b>	interleukin-21 receptor activity; receptor activity;

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