

Recombinant Human Interleukin 21 Receptor

Cat. No. IL21R-1659H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Human

Source Mammalian Cells

Description

Interleukin 21 receptor is a type I cytokine receptor. 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 (IL2) and interleukin 5 (IL5). 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 encoding the same protein have been described.

Molecular Weight

The predicted molecular weight of Recombinant Human IL-21 R is Mr 51.7 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 80-85 kDa.

State Of Matter

Lyophilized.

Purity

>95% by SDS Page and analyzed by silver stain.

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Endotoxin	<1.0 EU/g as determined by the LAL method.
Storage And Stability	This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

GENE INFORMATION

Gene Name	IL21R interleukin 21 receptor [Homo sapiens]
Synonyms	IL21R; interleukin 21 receptor; NILR; MGC10967; IL-21R; Novel interleukin receptor; Interleukin-21 receptor; IL-21R
Gene ID	50615
mRNA Refseq	NM_021798
Protein Refseq	NP_068570
MIM	605383
UniProt ID	Q9HBE5
Chromosome Location	16p11
Pathway	Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway
Function	interleukin-21 receptor activity; receptor activity

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