

## Recombinant Mouse Interleukin 21 Receptor

Cat. No. II21r-1763M Lot. No. (See product label)

### SPECIFICATION

<b>Species</b>	Mouse
<b>Source</b>	Mammalian Cells
<b>Description</b>	<p>Interleukin 21 Receptor 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.</p>
<b>Molecular Weight</b>	<p>The predicted molecular weight of Recombinant Mouse IL-21 R is Mr 51.5 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 70-80 kDa.</p>
<b>State Of Matter</b>	Lyophilized.
<b>Purity</b>	>95% by SDS Page and analyzed by silver stain.
<b>Endotoxin</b>	<0.1 ng per 1 g as determined by the LAL method.

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**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**

<b>Gene Name</b>	IL21r interleukin 21 receptor [ <i>Mus musculus</i> ]
<b>Synonyms</b>	IL21r; interleukin 21 receptor; NILR
<b>Gene ID</b>	60504
<b>mRNA Refseq</b>	NM_021887
<b>Protein Refseq</b>	NP_068687
<b>UniProt ID</b>	Q9JHX3
<b>Chromosome Location</b>	7 F4
<b>Pathway</b>	Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway
<b>Function</b>	cytokine receptor activity; receptor activity; transmembrane receptor activity

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