

## Active Recombinant Mouse IL21R, MlgG2a Fc-tagged, mutant

Cat. No. IL21R-512M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	The extracellular domain of mouse IL-21R (AAL82636.1)(Cys20-Trp234) is fused to the N-terminus of the Fc portion of a mutant mouse IgG2a was expressed in CHO cell.
<b>Species</b>	Mouse
<b>Source</b>	CHO
<b>ProteinLength</b>	20-234 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>	51 KDa (monomer)
<b>AA Sequence</b>	Cys20-Trp234
<b>Endotoxin</b>	<0.06 eu/μg="" as="" determined="" by="" lal="">
<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.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<a href="#">IL21r interleukin 21 receptor [ Mus musculus ]</a>
<b>Official Symbol</b>	IL21R
<b>Synonyms</b>	IL21R; interleukin 21 receptor; interleukin-21 receptor; NR8; IL-21R; LR-beta; IL-21 receptor; lymphocyte receptor beta; novel cytokine receptor 8; novel interleukin receptor; NILR;
<b>Gene ID</b>	<a href="#">60504</a>
<b>mRNA Refseq</b>	<a href="#">NM_021887</a>
<b>Protein Refseq</b>	<a href="#">NP_068687</a>

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**Pathway**

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;

**Function**

cytokine receptor activity; cytokine receptor activity; receptor activity; transmembrane signaling receptor activity;

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