

Active Recombinant Mouse IL21R, MlgG2a Fc-tagged, mutant

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

SPECIFICATION

Product Overview	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.
Species	Mouse
Source	CHO
ProteinLength	20-234 a.a.
Description	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, areceptor 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.
Form	Lyophilized from 0.2µm-filtered solution in PBS.
Bio-activity	Measured by its ability to inhibit IL-21-dependent proliferation of N1186 human T cells.

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Molecular Mass	51 KDa (monomer)
AA Sequence	Cys20-Trp234
Endotoxin	<0.06 eu/μg="" as="" determined="" by="" lal="">
Purity	>98%, by SDS-PAGE under reducing conditions.
Stability	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.
Reconstitution	Reconstitute at 100μg/ml in sterile PBS.
Warning	Avoid freeze/thaw cycles.

GENE INFORMATION

Gene Name	IL21r interleukin 21 receptor [Mus musculus]
Official Symbol	IL21R
Synonyms	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;
Gene ID	60504
mRNA Refseq	NM_021887
Protein Refseq	NP_068687

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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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