

Active Recombinant Mouse IL21R, Fc-tagged

Cat. No. IL21R-341M Lot. No. (See product label)

SPECIFICATION

Product Overview The extracellular domain of mouse IL-21R (aa 20-234) is fused to the N-terminus of the Fc region of a mutant mouse IgG2a.

Species Mouse

Source CHO

ProteinLength 20-234 a.a.

Description

Interleukin-21 receptor (IL-21R) is a type I transmembrane glycoprotein within the class I cytokine receptor family, type 4 subfamily. Complex formation between IL-21R and the common gamma chain (gammac) is required for signaling. IL-21R is expressed mainly on B cells (highest on mature, activated, follicular and germinal center B cells), NK cells and activated T cells, but is also found on dendritic cells, alternatively activated macrophages, intestinal lamina propria fibroblasts and epithelial cells and keratinocytes. B cell IL-21R engagement induces Blimp1 (which mediates plasma cell differentiation) and is important for memory responses. IL-21R engagement on mouse NK cells enhances their cytotoxic activity and IFN-gamma production. IL-21R engagement on CD8+ T cells aids control of viral infection and tumor growth; IL-21R is also necessary for sufficient numbers of regulatory T cells to combat chronic inflammation. IL-21R expression is often upregulated in allergic skin inflammation, systemic lupus erythematosus and diffuse large B cell lymphoma (DLBCL).

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Form	Lyophilized from 0.2µm-filtered solution in PBS.
Bio-activity	Shows the biological function of the IL-21R moiety and exerts a prolonged circulating half-life caused by the modified Fc domain.
Purity	≥98% (SDS-PAGE)
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.
Storage	Short Term Storage: +4°C; Long Term Storage: -20°C. 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
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;

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Function

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

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