

Active Recombinant Human IL21, Fc-tagged

Cat. No. IL21-337H Lot. No. (See product label)

SPECIFICATION

Product Overview The extracellular domain of human IL-21 (aa 32-162) is fused to the N-terminus of the Fc region of a mutant human IgG1.

Species Human

Source CHO

ProteinLength 32-162 a.a.

Description Interleukin-21 (IL-21) is a key factor in the transition between innate and adaptive immune responses secreted by activated T cells. The IL-21 receptor (IL-21R) is expressed in lymphoid tissue, in particular by NK, B, T and dendritic cells, macrophages and endothelial cells. Recent evidence suggests that IL-21 plays a supportive role in the proliferation of T and B cells and influences the cytolytic activity of natural killer cells. IL-21 has been shown to up-regulate genes associated with innate immunity and to inhibit the differentiation of na[?]ve T helper cells. IL-21 specifically inhibits IFN-gamma production from developing TH1 cells and is preferentially expressed by TH2 cells. Furthermore IL-21 has been identified as a growth and survival factor for human myeloma cells. IL-21/IL-21R interactions have a unique role in sequentially activating both innate and adaptive immune responses against poorly immunogenic tumors, leading to tumor rejection that is perforin dependent but IFN-gamma independent.

Form Lyophilized from 0.2µm-filtered solution in PBS.

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Bio-activity	Shows the biological function of the IL-21 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	IL21 interleukin 21 [Homo sapiens]
Official Symbol	IL21
Synonyms	IL21; interleukin 21; interleukin-21; IL 21; Za11; interleukin-21 isoform; IL-21;
Gene ID	59067
mRNA Refseq	NM_001207006
Protein Refseq	NP_001193935
MIM	605384
UniProt ID	Q9HBE4
Chromosome Location	4q26-q27
Pathway	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-

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cytokine receptor interaction, conserved biosystem; Jak-STAT signaling pathway, organism-specific biosystem; Jak-STAT signaling pathway, conserved biosystem;

Function

cytokine activity; cytokine receptor binding; interleukin-2 receptor binding;

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