

Active Recombinant Human IL2, Fc-tagged

Cat. No. IL2-306H Lot. No. (See product label)

SPECIFICATION

Product Overview	The extracellular domain of human IL-2 (aa 21-153) is fused to the N-terminus of the Fc region of a mutant human IgG1.
Species	Human
Source	NS1
ProteinLength	21-153 a.a.
Description	Interleukin-2 (IL-2) is a 133 amino acid glycoprotein with one intramolecular disulfide bond and variable glycosylation. It is secreted by activated T cells and induces proliferation and maturation of activated T cells, natural killer cells, and lymphokine activated killer cells. IL-2 also stimulates proliferation of antibody-producing B cells, activates neutrophils, and induces mononuclear cells to secrete IFN-gamma; and TNF-alpha; and -beta. Moreover, studies have shown that IL-2 is required for activation-induced apoptosis, an important hemeostatic mechanism in the immune system, which is involved in the maintenance of peripheral tolerance to self-antigens.
Form	Lyophilized from 0.2µm-filtered solution in PBS.
Bio-activity	Shows the biological function of the IL-2 moiety and exerts a prolonged circulating half-life caused by the modified Fc domain.
Purity	≥98% (SDS-PAGE)

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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 IL2 interleukin 2 [Homo sapiens]

Official Symbol IL2

Synonyms IL2; interleukin 2; interleukin-2; IL 2; T cell growth factor; TCGF; aldesleukin; involved in regulation of T-cell clonal expansion; IL-2; lymphokine;

Gene ID [3558](#)

mRNA Refseq [NM_000586](#)

Protein Refseq [NP_000577](#)

MIM [147680](#)

UniProt ID [P60568](#)

Chromosome Location 4q26-q27

Pathway Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem; Autoimmune thyroid disease, organism-specific biosystem; Autoimmune thyroid disease, conserved biosystem; Calcineurin-regulated NFAT-dependent transcription in lymphocytes, organism-specific biosystem; Calcium signaling in the

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CD4+ TCR pathway, organism-specific biosystem; Chagas disease (American trypanosomiasis), organism-specific biosystem;

Function

carbohydrate binding; cytokine activity; glycosphingolipid binding; growth factor activity; interleukin-2 receptor binding; interleukin-2 receptor binding; kappa-type opioid receptor binding; kinase activator activity;

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