Active Recombinant Mouse Il2, Fc-tagged

Cat. No. Il2-307M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The extracellular domain of mouse IL-2 (aa 21-169) is fused to the N-terminus of the Fc region of a mutant mouse IgG2a.
Species	Mouse
Source	NS1
ProteinLength	21-169 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	Specific Activity: 1-1.5 x10^6 Units/mg, measured using CTLL indicator cells. Shows the biological function of the IL-2 moiety and exerts a prolonged circulating half-life caused by the modified Fc domain. Blocks diabetogenic autoimmunity in nonobese diab

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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	Il2 interleukin 2 [Mus musculus]
Official Symbol	Il2
Synonyms	IL2; interleukin 2; interleukin-2; TCGF; T-cell growth factor; Il-2;
Gene ID	16183
mRNA Refseq	NM_008366
Protein Refseq	NP_032392
Pathway	Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem; Autoimmune thyroid disease, organism-specific biosystem; Autoimmune thyroid disease, conserved biosystem; Chagas disease (American trypanosomiasis), organism-specific biosystem; Chagas disease (American trypanosomiasis), conserved biosystem; Cytokine Signaling in Immune system, organism-specific biosystem;
Function	carbohydrate binding; cytokine activity; cytokine activity; cytokine activity; glycosphingolipid binding; growth factor activity; interleukin-2 receptor binding; interleukin-2 receptor binding; kappa-type opioid receptor binding;

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