

## 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 homeostatic 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<sup>6</sup> 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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<b>Purity</b>	≥98% (SDS-PAGE)
<b>Stability</b>	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.
<b>Storage</b>	Short Term Storage: +4°C; Long Term Storage: -20°C. Avoid freeze/thaw cycles.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	IL2 interleukin 2 [ <i>Mus musculus</i> ]
<b>Official Symbol</b>	IL2
<b>Synonyms</b>	IL2; interleukin 2; interleukin-2; TCGF; T-cell growth factor; IL-2;
<b>Gene ID</b>	16183
<b>mRNA Refseq</b>	NM_008366
<b>Protein Refseq</b>	NP_032392
<b>Pathway</b>	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;
<b>Function</b>	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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