

Datasheet for ABIN7566225
IL-2 Protein (AA 21-169) (Fc Tag)



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Overview

Quantity:	10 µg
Target:	IL-2 (IL2)
Protein Characteristics:	AA 21-169
Origin:	Mouse
Source:	NS1 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IL-2 protein is labelled with Fc Tag.

Product Details

Purpose:	IL-2 (mouse):Fc (mouse) (rec.) (non-lytic)
Cross-Reactivity:	Mouse
Characteristics:	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.
Purity:	>98 % (SDS-PAGE)
Sterility:	Sterile filtered
Endotoxin Level:	<0.06EU/µg protein (LAL test, Lonza).
Biological Activity Comment:	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 diabetic mice.

Target Details

Target:	IL-2 (IL2)
Alternative Name:	IL-2 (IL2 Products)
Background:	Interleukin-2, Aldesleukin 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.
Molecular Weight:	~46kDa (monomer)
NCBI Accession:	NP_032392
Pathways:	JAK-STAT Signaling , Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process , Production of Molecular Mediator of Immune Response , Activated T Cell Proliferation

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Buffer:	Lyophilized from 0.2µm-filtered solution in PBS.
Handling Advice:	Avoid freeze/thaw cycles. Centrifuge lyophilized vial before opening and reconstitution.
Storage:	4 °C, -20 °C
Storage Comment:	Short Term Storage: +4°C Long Term Storage: -20°C Use & 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.