

Datasheet for ABIN7566226  
**IL-2 Protein (AA 21-169) (Fc Tag)**



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## Overview

|                               |                                            |
|-------------------------------|--------------------------------------------|
| Quantity:                     | 50 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 <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 diabetic mice. |

## Target Details

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

## Application Details

|               |                       |
|---------------|-----------------------|
| Restrictions: | For Research Use only |
|---------------|-----------------------|

## 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: | <p>Short Term Storage: +4°C</p> <p>Long Term Storage: -20°C</p> <p>Use &amp; 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.</p> |