

Datasheet for ABIN7278726

## 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

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| Purpose:         | IL-2 (mouse):Fc (mouse) (rec.) (non-lytic)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Specificity:     | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Characteristics: | <p>Protein. 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. Source: NS1 cells. Endotoxin content: &lt;0.06EU/µg protein (LAL test, Lonza). Lyophilized from 0.2µm-filtered solution in PBS. Purity: &gt;98 % (SDS-PAGE).</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</p> |

## Product Details

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|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                              | mechanism in the immune system, which is involved in the maintenance of peripheral tolerance to self-antigens.                                                                                                                                                                       |
| Purity:                      | >98 % (SDS-PAGE)                                                                                                                                                                                                                                                                     |
| 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

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| Target:           | IL-2 (IL2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Alternative Name: | IL-2 ( <a href="#">IL2 Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Background:       | <p>Alternate Names/Synonyms: Interleukin-2, Aldesleukin</p> <p>Product 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.</p> |
| 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  |
| Concentration: | Lot specific |

## Handling

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|                  |                                                                                                                                                                                                              |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Buffer:          | Lyophilized from 0.2µm-filtered solution in PBS.                                                                                                                                                             |
| Handling Advice: | Avoid freeze/thaw cycles.                                                                                                                                                                                    |
| Storage:         | 4 °C,-20 °C                                                                                                                                                                                                  |
| Storage Comment: | Short Term Storage: +4°C<br>Long Term Storage: -20°C<br>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. |