

# Active Recombinant Guinea pig IL2 protein, His-tagged

**Cat. No.** IL2-4743G    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <b>Product Overview</b> | Active Recombinant Guinea pig IL2 protein(O88210)(21~152 aa), fused with N-terminal His tag, was expressed in E.coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Guinea pig                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | 21-152 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Form</b>             | Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Bio-activity</b>     | IL-2 (Interleukin-2) is a cytokine produced by T-cells in response to antigenic or mitogenic stimulation. IL-2 is a type of signaling molecule in the immune system, that is required for both T-cell and B-cell proliferation and other activities crucial to regulation of the immune response. Therefore, in order to detect the bioactivity of recombinant guinea pig IL-2, spleen single suspensions were prepared, activated with conA (final concentration 3 ug/ml). Cells were collected after 72h and washed with hanks. Then mouse splenic lymphocytes were seeded into triplicate wells of 96-well plates at a density of 10,000 cells/well with or without the addition of various concentrations of recombinant guinea pig IL-2. After incubated for 96h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). 10 µof CCK-8 solution was added to each well of the plate, the absorbance at 450 nm was measured using a microplate reader after incubating |

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the plate for 1-4 hours at 37°C. Proliferation of Splenic lymphocytes cells after incubation with IL-2 for 96h observed by inverted microscope was shown. The dose-effect curve of recombinant guinea pig IL-2 was shown. It was obvious that recombinant guinea pig IL-2 significantly promoted cell proliferation of Splenic lymphocytes cells. The EC50 for this effect is typically 0.195- 0.323 ug/ml.

|                       |                                                                                                            |
|-----------------------|------------------------------------------------------------------------------------------------------------|
| <b>Molecular Mass</b> | 18.8kDa                                                                                                    |
| <b>Endotoxin</b>      | <1.0EU per 1µg (determined by the LAL method).                                                             |
| <b>Purity</b>         | > 90% as determined by SDS-PAGE.                                                                           |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months. |
| <b>Reconstitution</b> | Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.                       |

## GENE INFORMATION

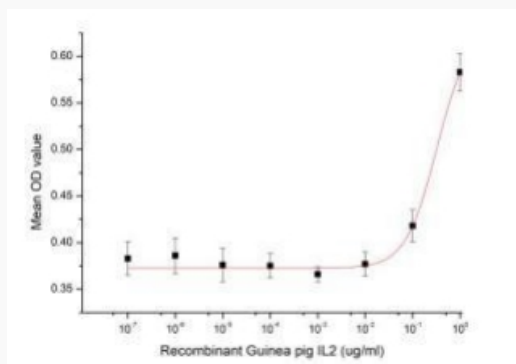
|                        |                                              |
|------------------------|----------------------------------------------|
| <b>Gene Name</b>       | IL2 interleukin 2 [ <i>Cavia porcellus</i> ] |
| <b>Official Symbol</b> | IL2                                          |
| <b>Synonyms</b>        | IL2; interleukin 2; interleukin-2;           |
| <b>Gene ID</b>         | 100379540                                    |
| <b>mRNA Refseq</b>     | NM_001172837                                 |
| <b>Protein Refseq</b>  | NP_001166308                                 |

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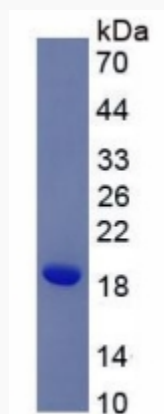
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## Activity



## SDS-PAGE



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