

## Active Recombinant Guinea pig IL2 protein, His-tagged

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

### SPECIFICATION

<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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