

## Active Recombinant Rabbit IL4 protein, His-tagged

Cat. No. IL4-1040R Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Active Recombinant Rabbit IL4 protein(Q9MZR8)(26~147 aa), fused with N-terminal His tag, was expressed in HEK293.
<b>Species</b>	Rabbit
<b>Source</b>	HEK293
<b>ProteinLength</b>	26-147 aa
<b>Form</b>	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
<b>Bio-activity</b>	<p>The interleukin 4 (IL4,) is a cytokine that induces differentiation of naive helper T cells (Th0 cells) to Th2 cells. Upon activation by IL4, Th2 cells subsequently produce additional IL4 in a positive feedback loop. IL4 has many biological roles, including the stimulation of activated B-cell and T-cell proliferation, and the differentiation of B cells into plasma cells. It is a key regulator in humoral and adaptive immunity. IL4 induces B-cell class switching to IgE, and up-regulates MHC class II production. IL4 decreases the production of Th1 cells, macrophages, IFN-gamma, and dendritic cell IL12. The activity of IL4 is usually measured by a cell proliferation assay using TF-1 cells. TF-1 cells were seeded into triplicate wells of 96-well plates at a density of 20000 cells/well with 10% serum standard 1640 which contains various concentrations of recombinant rabbit IL4. After incubated for 3 days, cells were observed by inverted microscope and cell proliferation was measured by Cell</p>

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Counting Kit-8 (CCK-8). Briefly, 10  $\mu$ of CCK-8 solution was added to each well of the plate, then the absorbance at 450 nm was measured using a microplate reader after incubating the plate for 2-4 hours at 37°C. Proliferation of TF-1 cells after incubation with IL4 for 3 days observed by inverted microscope was shown. Cell viability was assessed by CCK-8 (Cell Counting Kit-8 ) assay after incubation with IL4 for 3 days. It was obvious that recombinant rabbit IL4 significantly increased cell viability of TF-1 cells. The ED50 is 0.22 ug/ml.

<b>Molecular Mass</b>	15.6kDa
<b>Endotoxin</b>	<1.0EU per 1 $\mu$ g (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>	IL4 interleukin 4 [ <i>Oryctolagus cuniculus</i> ]
<b>Official Symbol</b>	IL4
<b>Synonyms</b>	IL4; interleukin 4; interleukin-4; B-cell stimulatory factor 1; lymphocyte stimulatory factor 1; IL2; BSF-1;
<b>Gene ID</b>	100302454

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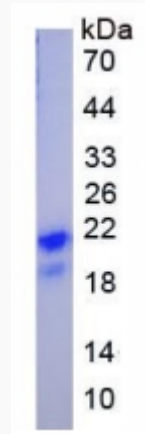
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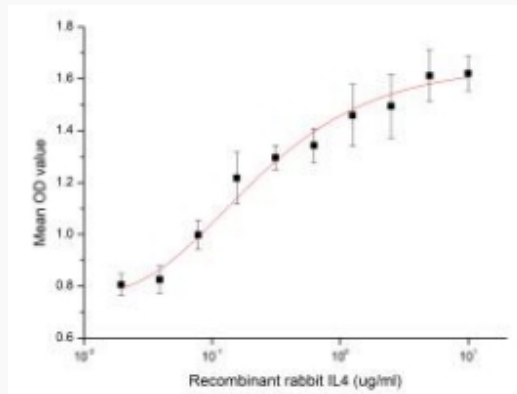
mRNA Refseq [NM\\_001163177](#)

Protein Refseq [NP\\_001156649](#)

**SDS-PAGE**



**Activity**



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