

# Recombinant rat IL-2 protein

Catalog Number: ATGP3889

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

21-155aa

### UniProt No.

P17108

### NCBI Accession No.

NP\_446288

### Alternative Names

Interleukin-2, IL-2, T-cell growth factor, TCGF

## PRODUCT SPECIFICATION

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### Molecular Weight

15.6 kDa (136aa) confirmed by MALDI-TOF

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 90% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Biological Activity

Measured in a cell proliferation assay using CTLL2 mouse cytotoxic T cells. The ED50 for this effect is less or equal to 0.3ng/ml.

### Tag

Non-Tagged

### Application

SDS-PAGE, Bioactivity

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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# Recombinant rat IL-2 protein

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## Description

IL-2, also known as T cell growth factor (TCGF), is an immunoregulatory lymphokine produced by T-cells in response to antigenic or mitogenic stimulation. IL-2/ IL-2R signaling is required for T-cell proliferation and other fundamental functions which are essential for the immune response. IL-2 stimulates growth and differentiation of B-cells, NK cells, lymphokine activated killer cells, monocytes, macrophages and oligodendrocytes. Recombinant rat IL-2 was expressed in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

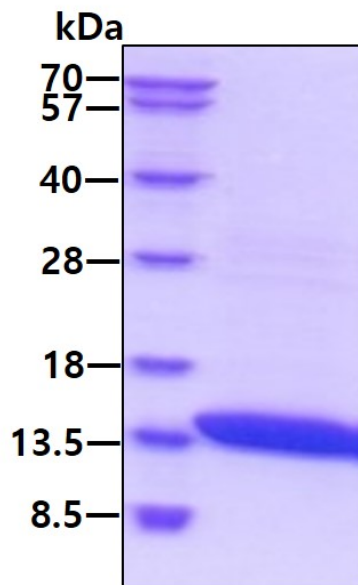
MAPTSSPAKE TQQHLEQLLL DLQVLLRGID NYKNLKLPM LTFKFYLPKQ ATELKHLQCL ENELGALQRV LDLTQSKSFH  
LEDAGNFISN IRVTVVKLKG SENKFECQFD DEPATVVEFL RRWIAICQSI ISTMTQ

## General References

Watson J., et al. (1980). Immunol Rev. 51:257-78.  
Taniguchi T., et al. (1983). Nature. 302(5906): 305-10.

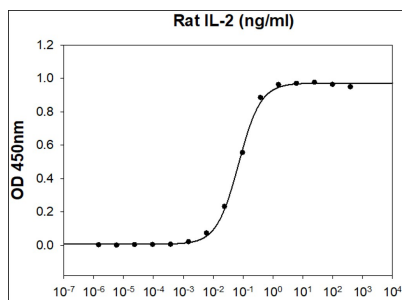
## DATA

### SDS-PAGE



3µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

### Biological Activity



Rat IL-2 stimulates cell proliferation of the CTLL2 mouse cytotoxic T cells. The ED50 range is less or equal to 0.3 ng/ml.