

Recombinant rat IL-2 protein

Catalog Number: ATGP3889

PRODUCT INFORMATION

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

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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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

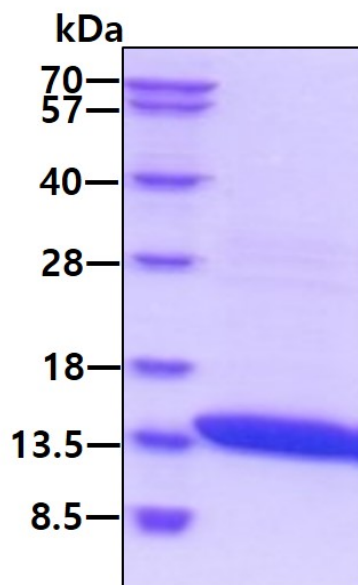
MAPTSSPAKE TQQHLEQLLL DLQVLLRGID NYKNLKLPM LTFKFYLPKQ ATELKHLQCL ENELGALQRV LDLTQSKSFH
LEDAGNFISN IRVTVVKLKG SENKFECQFD DEPATVVEFL RRWIAICQSI ISTMTQ

General References

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

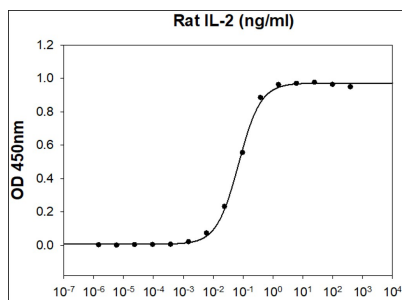
DATA

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.