

Recombinant mouse IL-2 (C160S) protein

Catalog Number: ATGP2987

PRODUCT INFORMATION

Expression system

E.coli

Domain

21-169aa

UniProt No.

P04351

NCBI Accession No.

NP_032392

Alternative Names

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

Additional Information

ILB0905 has been replaced with a catalog number ATGP2987.

PRODUCT SPECIFICATION

Molecular Weight

17.3 kDa (150aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) 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 CTLL-2 mouse cytotoxic T cells. The ED50 range ≤ 0.9 ng/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.

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BACKGROUND

Description

IL2 (Interleukin2), also known as T cell growth factor (TCGF), is an immunoregulatory lymphokine produced by T-cells in response to antigenic or mitogenic stimulation. IL2/IL-2R signaling is required for T-cell proliferation and other fundamental functions which are essential for the immune response. IL2 stimulates growth and differentiation of B-cells, NK cells, lymphokine activated killer cells, monocytes, macrophages and oligodendrocytes. Recombinant mouse IL2 was expressed in E. coli and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.

Amino acid Sequence

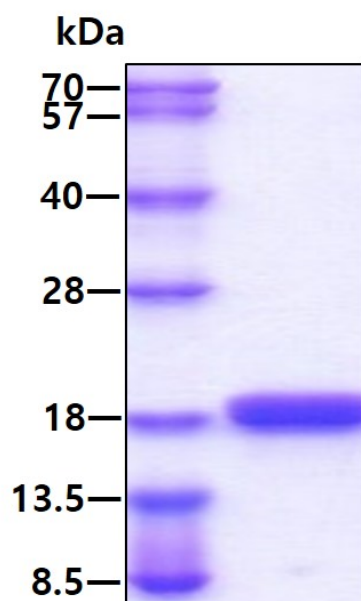
MAPTSSSTSS STAEAAQQQQQ QQQQQQQHLE QLLMDLQELL SRMENYRNK LPRMLTFKFY LPKQATELKD LQCLEDELGP LRHVLDTQS KSFQLEDAEN FISNIRVTVV KLKGSNTFE CQFDDESATV VDFLRRWIAF SQSIISTSPQ

General References

Watson J., et al. (1980). Immunol Rev. 51:257-278.
Taniguchi T., et al. (1983). Nature. 302: 305-310.

DATA

SDS-PAGE

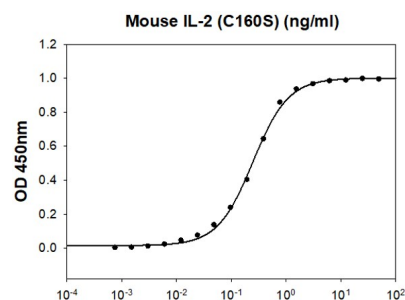


3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

Biological Activity

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Mouse IL-2 (C160S) stimulates cell proliferation of the CTLL2 mouse cytotoxic T cells. The ED50 range ≤ 0.9 ng/ml.