Datasheet for ABIN934929

IL-2 Protein (Cys145Ser-Mutant)

1 Image

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Overview

Quantity:	100 µg
Target:	IL-2 (IL2)
Protein Characteristics:	Cys145Ser-Mutant
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	SDS-PAGE (SDS)

Product Details

Sequence:	MPTSSSTKKT QLQLEHLLLD LQMILNGINN YKNPKLTRML TFKFYMPKKA TELKHLQCLE EELKPLEEVL NLAQSKNFHL RPRDLISNIN VIVLELKGSE TTFMCEYADE TATIVEFLNR WITFSQSIIS TLT
Characteristics:	Purified recombinant Human IL2 protein Expression System: E.coli Bioactivity: Measured in a cell proliferation assay using CTLL2 mouse cytotoxic T cells. The ED50 for this effect is < 1.5 ng/mL. Molecular weight on SDS-PAGE will appear higher.
Purity:	> 95 % pure

Target Details

Target:	IL-2 (IL2)
Alternative Name:	IL2 (IL2 Products)
Background:	IL-2, also known as T cell growth factor(TCGF), is an immunoregulatory lymphokine produced by T-cells in response to protein 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. This recombinant human IL-2 is a 15.4 kDa protein, containing 133 amino acid residues including one intra chain disulfide bond. Recombinant human IL-2 was overexpressed in E. coli and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer. Alternative Names: T-cell growth factor protein, Interleukin 2 protein, IL-2, IL-2 protein, IL 2 protein, IL-2 protein, Aldesleukin protein, Interleukin-2 protein, IL 2, IL2, IL 2 protein, TCGF protein
Molecular Weight:	15.4 kDa (133 AA)
Pathways:	JAK-STAT Signaling, Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process, Production of Molecular Mediator of Immune Response, Activated T Cell Proliferation

Application Details

Application Notes:	IL2 protein has been used in SDS PAGE and may be suitable for use in other assays to be determined by the end user.
Assay Procedure:	Cell line: CTLL2 (mouse cytotoxic T-cell) Maintenance Condition: 10 % FBS RPMI 1640 with hIL2 Assay medium: 10 % FBS RPMI 1640 without hIL2 Cell Density: 2 x 10,000 cells/well (96 well plate, final volume 100 µL) Starvation: 24 h, Assay medium Incubation Time: 24 h (after sample treatment) Concentration Range: 0.039 ng/mL - 40 ng/mL Detection method: MTT assay
Restrictions:	For Research Use only

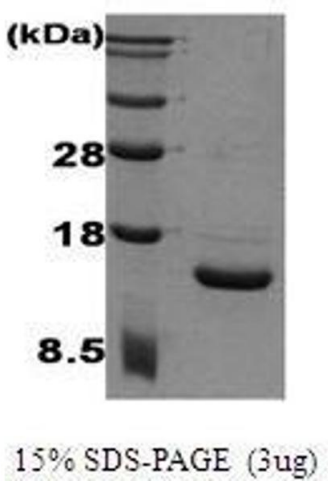
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Supplied as a liquid in PBS, pH 7.4.

Handling

Handling Advice:	Avoid repeated freeze/thaw cycles.
Storage:	RT/-20 °C
Storage Comment:	Store at 4 °C for short term storage (1/2 weeks). Aliquot and store at -20 °C or - 70 °C for long term storage.

Images



SDS-PAGE

Image 1. Figure annotation denotes ug of protein loaded and % gel used.