Datasheet for ABIN1096921

IL-2 Protein (AA 22-153)

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Overview

Quantity:	50 µg
Target:	IL-2 (IL2)
Protein Characteristics:	AA 22-153
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Functional Studies (Func)

Product Details

Purpose:	Recombinant Human Interleukin-2/IL-2
Sequence:	MPTSSSTKKT QLQLEHLLLD LQMILNGINN YKNPKLTRML TFKFYMPKKA TELKHLQCLE EELKPLEEVL NLAQSKNFHL RPRDLISNIN VIVLELKGSE TTFMCEYADE TATIVEFLNR WITFCQSIIS TLT
Characteristics:	Recombinant Human Interleukin-2/IL-2 is produced by our E. coli expression system. The target protein is expressed with sequence (Pro22-Thr153) of Human IL-2.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	IL-2 (IL2)
Alternative Name:	interleukin-2 (IL2 Products)
Background:	Recombinant Human Interleukin-2 is a highly purified protein with a molecular weight of approximately 15,300 Daltons. The chemical name is des-alanyl-1, serine-125 Human Interleukin-2. It is produced by recombinant DNA technology using a genetically engineered E. coli strain containing an analog of the human interleukin-2 gene. Genetic engineering techniques were used to modify the Human IL-2 gene, and the resulting expression clone encodes a modified Human IL-2. This recombinant form differs from native Interleukin-2 in following ways: 1) it is not glycosylated, 2) the molecule has no N-terminal alanine, 3) the molecule has serine substituted for cysteine at amino acid position 125, 4) the aggregation state of molecule is likely to be different from that of native IL-2. Alternative Names: Interleukin-2, IL-2, T-Cell Growth Factor, TCGF, Aldesleukin, IL2
Molecular Weight:	15.4 kDa
UniProt:	P60568
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

Comment:	Biological activity: ED50 is less than 0.1 ng/ml as determined by the dose-dependent stimulation of murine CTLL-2 cells.Specific Activity of 1.0 x 107 IU/ mg.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM HAc-NaAc, 150 mM NaCl, pH 4.0.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C

Handling

Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	3 months