Datasheet for ABIN1691742

IL-2 Protein (AA 22-153) (His tag)

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Overview

Quantity:	50 µg
Target:	IL-2 (IL2)
Protein Characteristics:	AA 22-153
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL-2 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Interleukin-2/IL-2 (C-6His)
Sequence:	APTSSSTKKT QLQLEHLLLD LQMILNGINN YKNPKLTRML TFKFYMPKKA TELKHLQCLE EELKPLEEVL NLAQSKNFHL RPRDLISNIN VIVLELKGSE TTFMCEYADE TATIVEFLNR WITFCQSIIS TLTVDHHHHH H
Characteristics:	Recombinant Human Interleukin-2/IL-2 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Pro22-Thr153) of Human IL-2 fused with a polyhistidine tag at the C-terminus.
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:	IL-2 (IL2 Products)
Sub Type:	Fusionprotein
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:	16.4 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

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 PB,150 mM NaCl, pH 7.4.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.

Handling

	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:	5 months