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Datasheet for ABIN6938917 IL-2 Protein (AA 21-153) (His tag,AVI tag,Biotin)





Overview

Quantity:	200 µg
Target:	IL-2 (IL2)
Protein Characteristics:	AA 21-153
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IL-2 protein is labelled with His tag,AVI tag,Biotin.

Product Details

Sequence:	AA 21-153
Specificity:	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.
Target Details	
Target:	IL-2 (IL2)

larget:	IL-2 (IL2)
Alternative Name:	IL-2 (IL2 Products)
Background:	Interleukin-2 (IL-2) is an interleukin, a type of cytokine immune system signaling molecule,

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	which is a leukocytotrophic hormone that is instrumental in the body's natural response to
	microbial infection and in discriminating between foreign (non-self) and self. IL-2 mediates its
	effects by binding to IL-2 receptors, which are expressed by lymphocytes, the cells that are
	responsible for immunity. Mature human IL-2 shares 56 % and 66 % aa sequence identity with
	mouse and rat IL-2, respectively. Human and mouse IL-2 exhibit crossspecies activity. The
	receptor for IL-2 consists of three subunits that are present on the cell surface in varying
	preformed complexes. IL-2 is also necessary during T cell development in the thymus for the
	maturation of a unique subset of T cells that are termed regulatory T cells (T-regs). After exiting
	from the thymus, T-Regs function to prevent other T cells from recognizing and reacting
	against "self antigens", which could result in "autoimmunity". T-Regs do so by preventing the
	responding cells from producing IL-2. Thus, IL-2 is required to discriminate between self and
	non-self, another one of the unique characteristics of the immune system.
Molecular Weight:	19.1 kDa
NCBI Accession:	NP_000577
Pathways:	JAK-STAT Signaling, Regulation of Leukocyte Mediated Immunity, Positive Regulation of

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:	Ready-to-use AvitagTM biotinylated protein:
	The product is exclusively produced using the AvitagTM technology. Briefly, a unique 15 amino
	acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector
	construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli
	biotin ligase BirA.
	This single-point enzymatic labeling technique brings many advantages for commonly used
	binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does
	NOT interfere with the target protein's natural binding activities. In addition, when immobilized
	on an avidin-coated surface, the protein orientation is uniform because the position of the Avi
	tag in the protein is precisely controlled.
Restrictions:	For Research Use only

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Handling

Format:	Lyophilized
Buffer:	PBS with Arginine, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C

Images





SDS-PAGE

Image 1. Biotinylated Human IL-2, His,Avitag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

ELISA

Image 2. Immobilized Human IL-2 R alpha, Fc Tag (ABIN2181382,ABIN2181381) at 5 µg/mL (100 µL/well) can bind Biotinylated Human IL-2, His,Avitag (ABIN6938917,ABIN6950990) with a linear range of 0.6-5 ng/mL (QC tested).

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