

Datasheet for ABIN7319559

IL-2 Protein

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Overview

Quantity:	50 µg
Target:	IL-2 (IL2)
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Purpose:	Recombinant Human Interleukin-2/IL-2 Protein (Mutant)(Active)
Sequence:	Ala21-Thr153(L100F,R101D,L105V,I106V,I112F)
Characteristics:	Recombinant Human Interleukin-2 is produced by our Mammalian expression system and the target gene encoding Ala21-Thr153(L100F,R101D,L105V,I106V,I112F) is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured in a cell proliferation assay using CTLL-2 mouse cytotoxic T cells. The specific activity of Recombinant Human IL-2 is $\geq 1 \times 10^7$ IU/mg.

Target Details

Target:	IL-2 (IL2)
Alternative Name:	Interleukin-2/IL-2 (IL2 Products)

Target Details

Background:	Background: Interleukin-2(IL-2) is an interleukin, a type of cytokine signaling molecule in the immune system,belongs to the IL-2 family. It is a powerful immunoregulatory lymphokine produced by T-cells in response to antigenic or mitogenic stimulation. IL-2/IL-2R signaling is required for T-cell proliferation and other fundamental functions that 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. New research has shown that IL-2 mutant reduced toxicity while being more potent at stimulating anti-tumor effector immune cells. Synonym: Interleukin-2, IL-2, T-Cell Growth Factor, TCGF, Aldesleukin, IL3
Molecular Weight:	16.5 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
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Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.