

Datasheet for ABIN7505778
IL-2 Protein (AA 21-155) (His tag)



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Overview

Quantity:	100 µg
Target:	IL-2 (IL2)
Protein Characteristics:	AA 21-155
Origin:	Rat
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL-2 protein is labelled with His tag.

Product Details

Sequence:	Ala 21-Gln 155
Characteristics:	A DNA sequence encoding the Rat IL-2 protein (P17108) (Ala21-Gln155) was expressed with a C-His.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	IL-2 (IL2)
Alternative Name:	Interleukin-2 (IL2 Products)
Background:	Abbreviation: Interleukin-2,IL-2 Target Synonym: Aldesleukin,IL 2,IL-2,IL2,IL2,Interleukin 2,Interleukin-2,Involved in regulation of T cell clonal expansion,Lymphokine,POIL2,T Cell Growth Factor,T-cell growth factor,TCGF Background: Interleukin-2(IL-2)is a O-glycosylated four α-helix bundle cytokine that has potent

Target Details

stimulatory activity for antigenactivated T cells. It is expressed by CD4+ and CD8+ T cells, $\gamma\delta$ T cells, B cells, dendritic cells, and eosinophils. Mature rat IL-2 shares 66 % and 73 % amino acid sequence identity with human and mouse IL-2, respectively. The receptor for IL-2 consists of three subunits that are present on the cell surface in varying preformed complexes. IL-2 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.

Molecular Weight: Calculated MW: 14.74 kDa
Observed MW: 16 kDa

UniProt: [P17108](#)

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

Buffer: Lyophilized from sterile PBS, pH 7.4.
Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.

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.

Expiry Date: 12 months