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Datasheet for ABIN7274932

IL-2 Protein (AA 21-169) (His-Avi Tag)

3 Images

Overview

Quantity:	100 µg
Target:	IL-2 (IL2)
Protein Characteristics:	AA 21-169
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL-2 protein is labelled with His-Avi Tag.

Product Details

Purpose:	Mouse IL-2 Protein
Sequence:	Ala21-Gln169
Characteristics:	Recombinant Mouse IL-2 Protein is expressed from HEK293 with His tag and Avi tag at the N-Terminus.It contains Ala21-Gln169.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	The affinity constant of 30.49 nM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

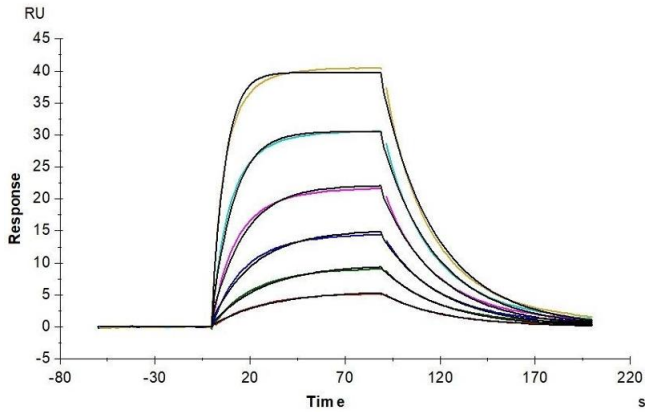
Target:	IL-2 (IL2)
Alternative Name:	IL-2 (IL2 Products)
Background:	Interleukin-2 (IL-2) is an interleukin, a type of cytokine signaling molecule in the immune system. It is a 15,5 - 16 kDa protein that regulates the activities of white blood cells (leukocytes, often lymphocytes) that are responsible for immunity. IL-2 has essential roles in key functions of the immune system, tolerance and immunity, primarily via its direct effects on T cells.
Molecular Weight:	20.1 kDa. Due to glycosylation, the protein migrates to 27-30 kDa based on Tris-Bis PAGE result.
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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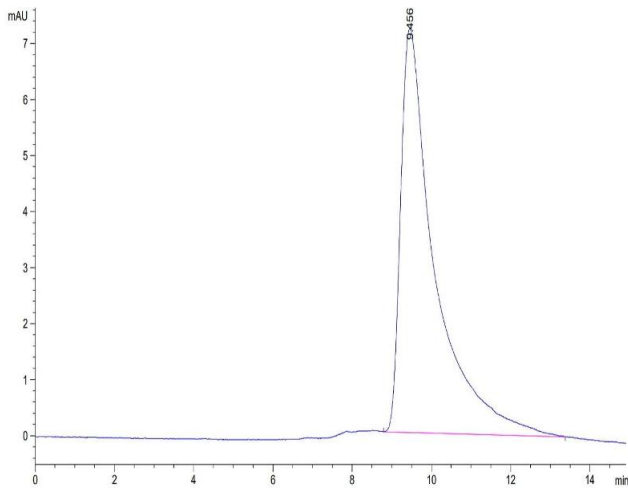
Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



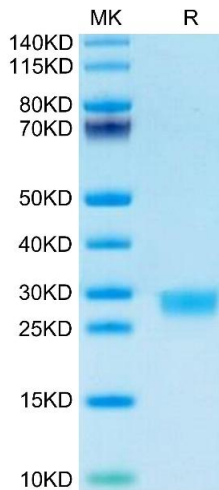
Surface Plasmon Resonance

Image 1. Mouse IL-2 R alpha, His Tag immobilized on CM5 Chip can bind Mouse IL-2, His Tag with an affinity constant of 30.49 nM as determined in SPR assay (Biacore T200).



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Mouse IL-2 is greater than 95 % as determined by SEC-HPLC.



SDS-PAGE

Image 3. Mouse IL-2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .