

Datasheet for ABIN7274915
IL-2 Protein (AA 21-153)

5 Images

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Overview

Quantity:	100 µg
Target:	IL-2 (IL2)
Protein Characteristics:	AA 21-153
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purpose:	Human IL-2 Protein
Sequence:	Ala21-Thr153
Characteristics:	Recombinant Human IL-2 Protein is expressed from E.coli without tag.It contains Ala21-Thr153.
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 15.2nM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

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

Target Details

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:	The protein has a predicted 15.5 kDa same as Tris-Bis PAGE result.
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

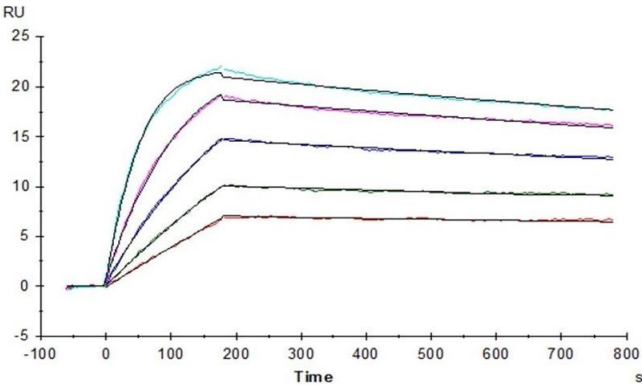
Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in 100 mM Acetic Acid.
Buffer:	Lyophilized from 0.22µm filtered solution in 100 mM Acetic Acid. 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

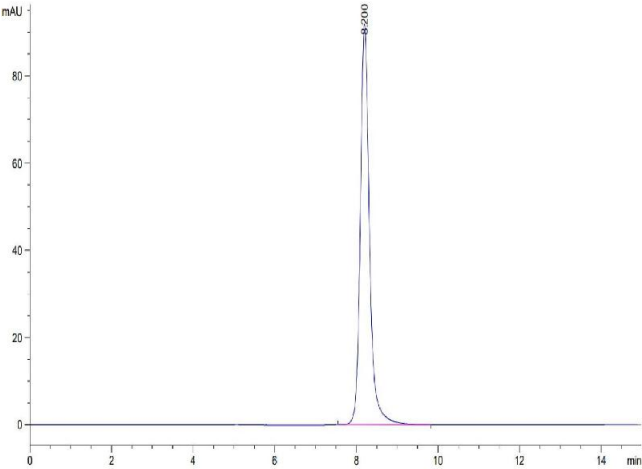
Surface Plasmon Resonance

Image 1. Human IL-2 R beta&IL-2 R gamma, hFc Tag captured on CM5 Chip via Protein A can bind Human IL-2, No Tag with an affinity constant of 0.114 nM as determined in SPR assay (Biacore T200).



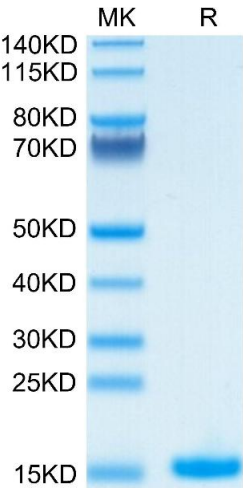
Size-exclusion chromatography-High Pressure Liquid Chromatography

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



SDS-PAGE

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



Please check the [product details page](#) for more images. Overall 5 images are available for ABIN7274915.