

Datasheet for ABIN7274933

**IL-2 Protein (AA 21-169) (His-Avi Tag,Biotin)****3** Images[Go to Product page](#)

## 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,Biotin.

## Product Details

Purpose:	Biotinylated Mouse IL-2 Protein
Sequence:	Ala21-Gln169
Characteristics:	Recombinant Biotinylated 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:	Immobilized Mouse IL-2 R alpha, His Tag at 2ug/ml (100ul/well) on the plate. Dose response curve for Biotinylated Mouse IL-2, His Tag with the EC50 of 65.2ng/ml determined by ELISA.

## Target Details

Target:	IL-2 (IL2)
Alternative Name:	IL-2 ( <a href="#">IL2 Products</a> )
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:	<a href="#">JAK-STAT Signaling</a> , <a href="#">Regulation of Leukocyte Mediated Immunity</a> , <a href="#">Positive Regulation of Immune Effector Process</a> , <a href="#">Production of Molecular Mediator of Immune Response</a> , <a href="#">Activated T Cell Proliferation</a>

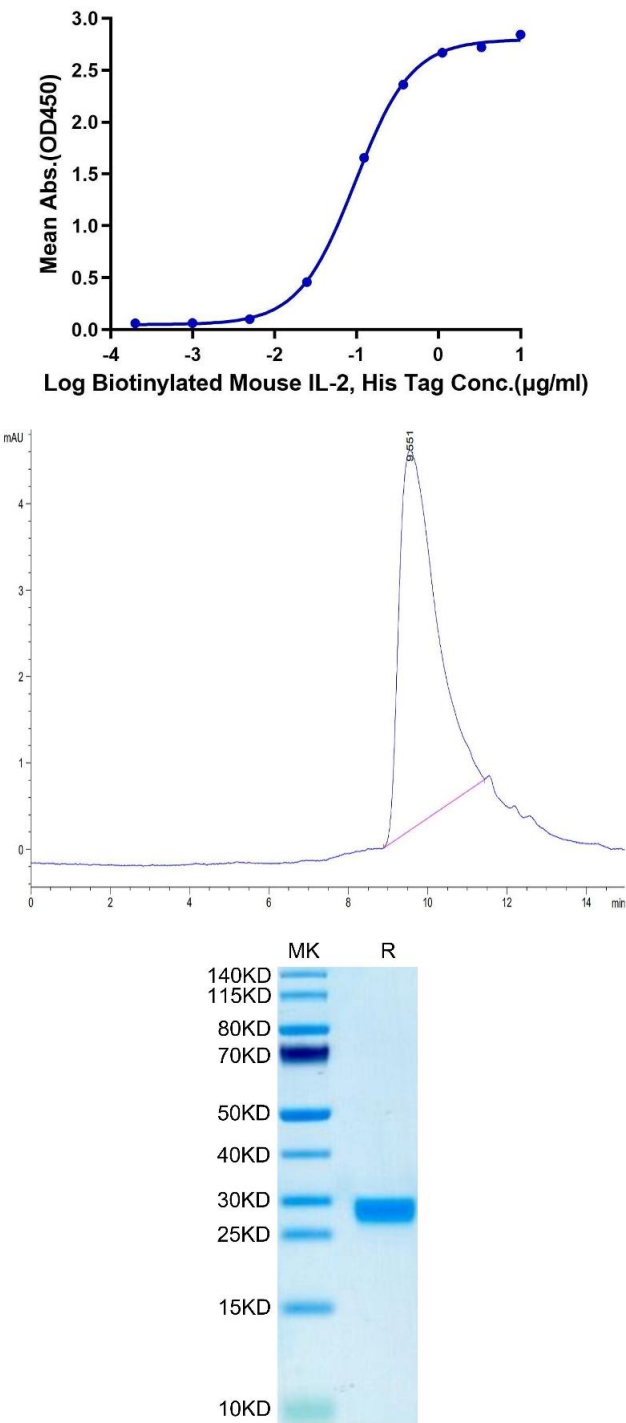
## Application Details

Restrictions:	For Research Use only
---------------	-----------------------

## 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

**Biotinylated Mouse IL-2, His Tag ELISA**  
0.2µg Mouse IL-2 R alpha, His Tag Per Well



**ELISA**

**Image 1.** Immobilized Mouse IL-2 R alpha, His Tag at 2 µg/mL (100 µL/well) on the plate. Dose response curve for Biotinylated Mouse IL-2, His Tag with the EC50 of 95.8 ng/mL determined by ELISA.

**Size-exclusion chromatography-High Pressure Liquid Chromatography**

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

**SDS-PAGE**

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