

# Human IL-2 Protein

Cat. No. IL2-HM001

## Description

<b>Source</b>	Recombinant Human IL-2 Protein is expressed from HEK293 without tag. It contains Ala21-Thr153.
<b>Accession</b>	P60568
<b>Molecular Weight</b>	The protein has a predicted MW of 15.41 kDa same as Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 0.05 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

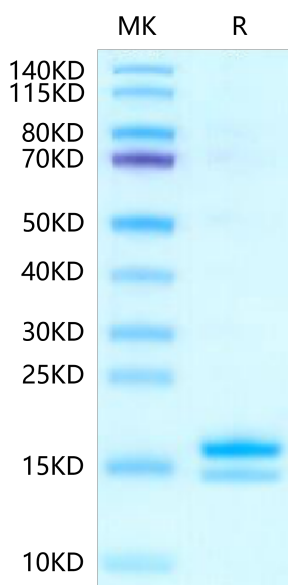
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-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.

## 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.

## Assay Data

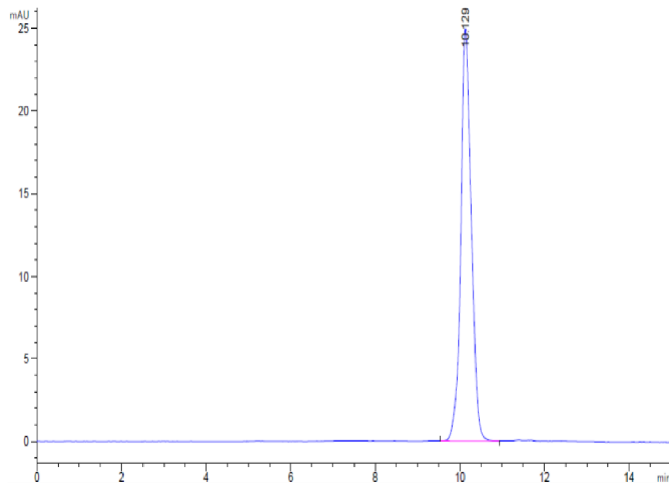
### Bis-Tris PAGE



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

### SEC-HPLC

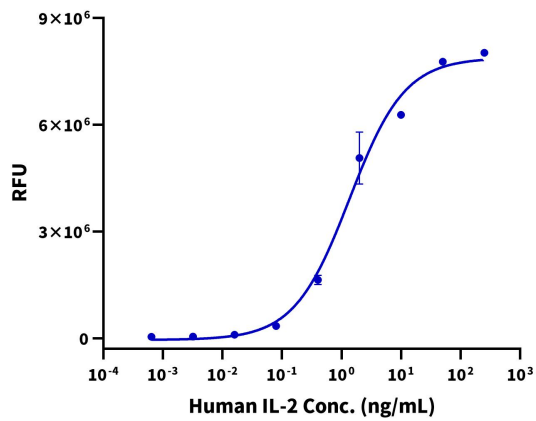
Assay Data



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

Cell Based Assay

Recombinant Human IL-2 Bioactivity



Measured in a cell proliferation assay using CTLL2 mouse cytotoxic T cells. The ED50 for this effect is 0.5-2 ng/mL.