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Datasheet for ABIN7274206

## CD25 Protein (AA 22-236) (His tag)

### 4 Images

#### Overview

Quantity:	100 µg
Target:	CD25 (IL2RA)
Protein Characteristics:	AA 22-236
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD25 protein is labelled with His tag.

#### Product Details

Purpose:	Mouse IL-2 R alpha/CD25 Protein
Sequence:	Glu22-Lys236
Characteristics:	Recombinant Mouse IL-2 R alpha/CD25 Protein is expressed from HEK293 with His tag at the C-Terminus.It contains Glu22-Lys236.
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 2µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Mouse IL-2, His Tag with the EC50 of 95.8ng/ml determined by ELISA. The affinity constant of 30.49 nM as determined in SPR assay (Biacore T200). See testing image for detail.

## Target Details

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Target:	CD25 (IL2RA)
Alternative Name:	IL-2 R alpha ( <a href="#">IL2RA Products</a> )
Background:	IL-2 receptor alpha (IL-2 R alpha), also known as Tac antigen and as CD25, was initially identified as a 55 kDa membrane glycoprotein that is capable of binding IL-2. Receptor for interleukin-2. The receptor is involved in the regulation of immune tolerance by controlling regulatory T cells (TREGs) activity. TREGs suppress the activation and expansion of autoreactive T-cells.
Molecular Weight:	25.76 kDa. Due to glycosylation, the protein migrates to 50-70 kDa based on Tris-Bis PAGE result.
UniProt:	<a href="#">P01590</a>
Pathways:	<a href="#">JAK-STAT Signaling</a> , <a href="#">Growth Factor Binding</a> , <a href="#">Activated T Cell Proliferation</a>

## Application Details

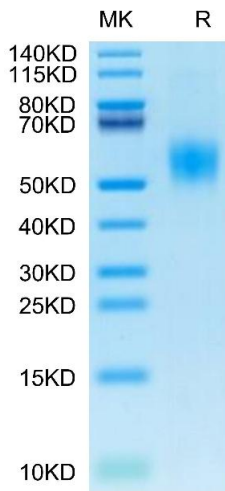
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Restrictions:	For Research Use only
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## Handling

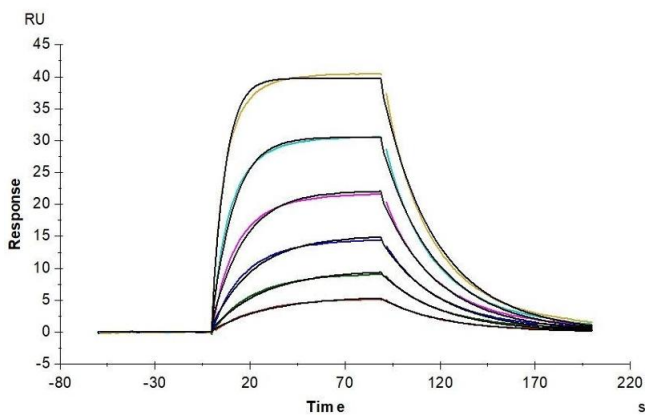
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Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in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



**SDS-PAGE**

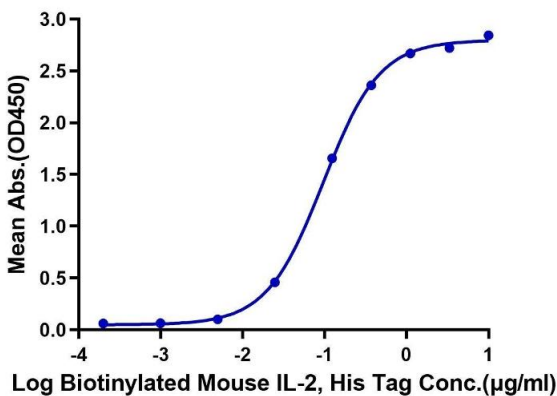
**Image 1.** Mouse IL-2 R alpha on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



**Surface Plasmon Resonance**

**Image 2.** 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).

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



**ELISA**

**Image 3.** 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.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7274206.