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Datasheet for ABIN7273891

## CD80 Protein (CD80) (AA 35-242) (His tag)

### 3 Images

#### Overview

Quantity:	100 µg
Target:	CD80
Protein Characteristics:	AA 35-242
Origin:	Cynomolgus
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD80 protein is labelled with His tag.

#### Product Details

Purpose:	Cynomolgus B7-1/CD80 Protein
Sequence:	Val35-Asn242
Characteristics:	Recombinant Cynomolgus B7-1/CD80 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Val35-Asn242.
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 9.90 nM as determined in SPR assay (Biacore T200). See testing image for detail.

## Target Details

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Target:	CD80
Alternative Name:	B7-1 ( <a href="#">CD80 Products</a> )
Background:	Cluster of differentiation 80 (also CD80 and B7-1) is a protein found on dendritic cells, activated B cells and monocytes that provides a costimulatory signal necessary for T cell activation and survival. It is the ligand for two different proteins on the T cell surface: CD28 and CTLA-4.
Molecular Weight:	25 kDa. Due to glycosylation, the protein migrates to 40-50 kDa based on Tris-Bis PAGE result.
UniProt:	<a href="#">G7NXN7</a>
Pathways:	<a href="#">TCR Signaling</a> , <a href="#">Fc-epsilon Receptor Signaling Pathway</a> , <a href="#">EGFR Signaling Pathway</a> , <a href="#">Neurotrophin Signaling Pathway</a> , <a href="#">Positive Regulation of Immune Effector Process</a> , <a href="#">Cancer Immune Checkpoints</a>

## Application Details

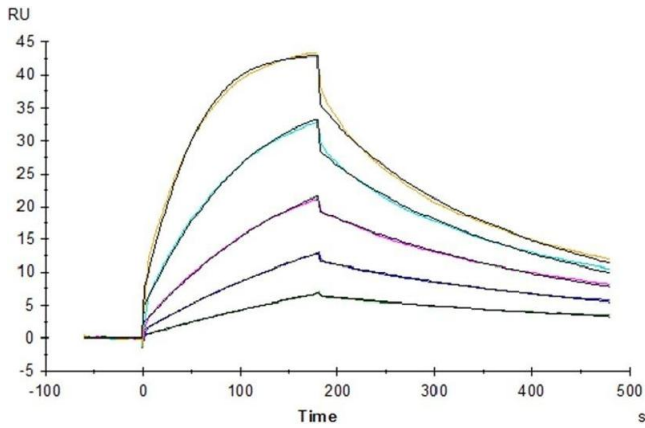
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Restrictions:	For Research Use only
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## Handling

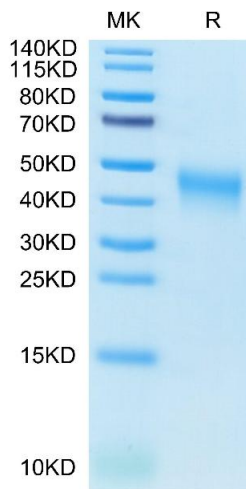
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Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in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



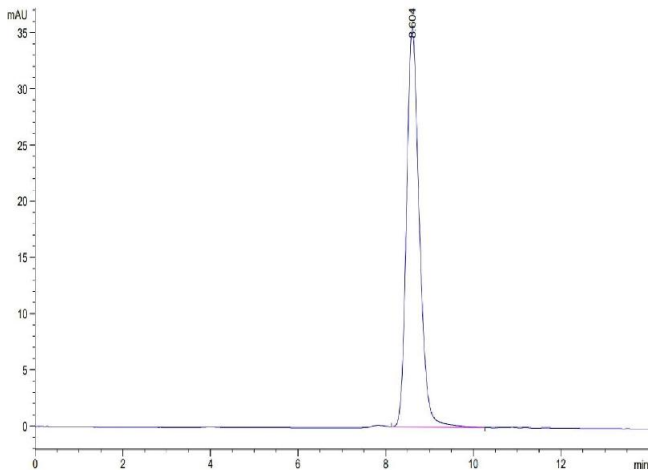
### Surface Plasmon Resonance

**Image 1.** Cynomolgus B7-1, His Tag immobilized on CM5 Chip can bind Cynomolgus CTLA-4, His Tag with an affinity constant of 9.90 nM as determined in SPR assay (Biacore T200).



### SDS-PAGE

**Image 2.** Cynomolgus B7-1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



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

**Image 3.** The purity of Cynomolgus B7-1 is greater than 95 % as determined by SEC-HPLC.