

Datasheet for ABIN7273893

CD80 Protein (CD80) (AA 35-242) (His-Avi Tag)**4** Images[Go to Product page](#)

Overview

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

Product Details

Purpose:	Human B7-1/CD80 Protein
Sequence:	Val35-Asn242
Characteristics:	Recombinant Human B7-1/CD80 Protein is expressed from HEK293 with His tag and Avi 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:	Immobilized Human B7-1, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Human CTLA-4, hFc Tag with the EC50 0.12µg/ml determined by ELISA. The affinity constant of 1.1nM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

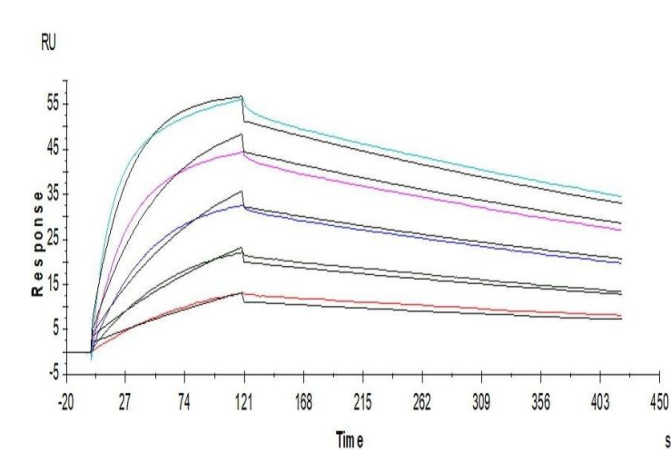
Target:	CD80
Alternative Name:	B7-1 (CD80 Products)
Background:	Cluster of differentiation 80 (also CD80 and B7-1) is a protein found on dendritic cells, activated B cells and monocytes that provides a costimulatory signal necessary for T cell activation and survival. It is the ligand for two different proteins on the T cell surface: CD28 and CTLA-4.
Molecular Weight:	26.8 kDa. Due to glycosylation, the protein migrates to 50-70 kDa based on Tris-Bis PAGE result.
Pathways:	TCR Signaling , Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway , Positive Regulation of Immune Effector Process , Cancer Immune Checkpoints

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 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. Human B7-1, His Tag captured on CM5 Chip via Anti-His Antibody can bind Human CTLA4, hFc Tag with an affinity constant of 1.1nM as determined in SPR assay (Biacore T200).

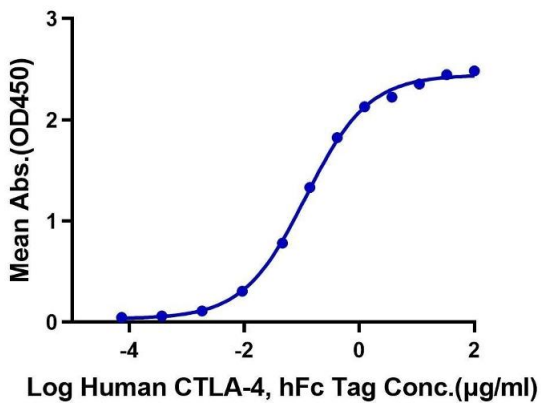


SDS-PAGE

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

Human B7-1, His Tag ELISA

0.05µg Human B7-1, His Tag Per Well



ELISA

Image 3. Immobilized Human B7-1, His Tag at 0.5 µg/mL (100 µL/Well) on the plate. Dose response curve for Human CTLA-4, hFc Tag with the EC50 0.12 µg/mL determined by ELISA.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7273893.