

Datasheet for ABIN7275653
SIRP AlphaV2 protein (His tag)



[Go to Product page](#)

6 Images

Overview

Quantity:	100 µg
Target:	SIRP AlphaV2
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	His tag

Product Details

Sequence:	Glu31-Arg369
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 SIRP alpha V2, His Tag at 1µg/ml (100µl/Well) on the plate. Dose response curve for Human CD47, hFc Tag with the EC50 of 0.15µg/ml determined by ELISA. The affinity constant of 9.11nM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

Target:	SIRP AlphaV2
Alternative Name:	SIRP alpha V2
Background:	CD172a, BIT, MFR, MYD1, MYD-1, P84, PTPNS1, SHP substrate 1, SHPS1, SHPS-1, SHPS1CD172A, SIRP alpha, SIRPA, Sirp-alpha-1, SIRPalph2, Sirp-alpha-2, Sirp-alpha-3,Signal

Target Details

regulatory protein α (SIRP α) is a regulatory membrane glycoprotein from SIRP family expressed mainly by myeloid cells and also by stem cells or neurons. SIRP α acts as inhibitory receptor and interacts with a broadly expressed transmembrane protein CD47 also called the "don't eat me" signal. Cancer cells highly expressed CD47 that activate SIRP α and inhibit macrophage-mediated destruction.

Molecular Weight: 38 kDa. Due to glycosylation, the protein migrates to 55-65 kDa based on Tris-Bis PAGE result.

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

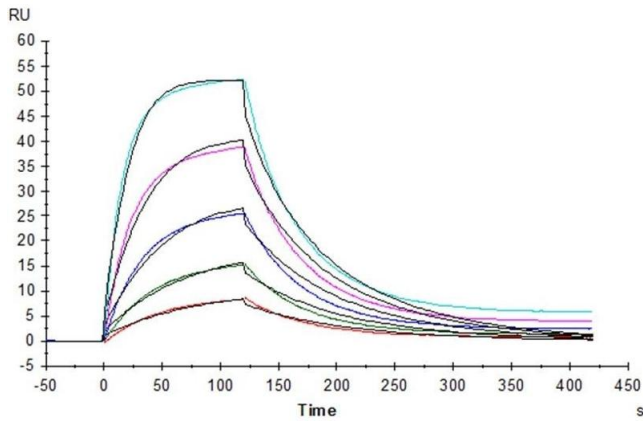
Reconstitution: Centrifuge tubes before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{mL}$ is recommended (usually we use 1 mg/mL solution for lyophilization). Dissolve the lyophilized protein in distilled water.

Buffer: Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 5 % trehalose is added as protectant before lyophilization.

Storage: 4 $^{\circ}\text{C}$, -80 $^{\circ}\text{C}$

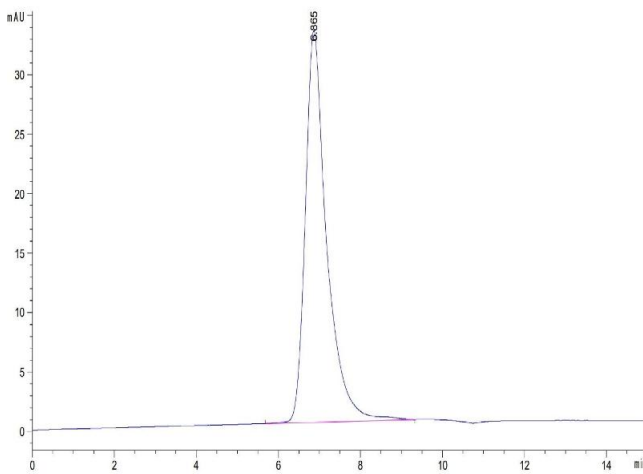
Storage Comment: Reconstituted protein stable at -80 $^{\circ}\text{C}$ for 12 months, 4 $^{\circ}\text{C}$ for 1 week. Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

Expiry Date: 12 months



Surface Plasmon Resonance

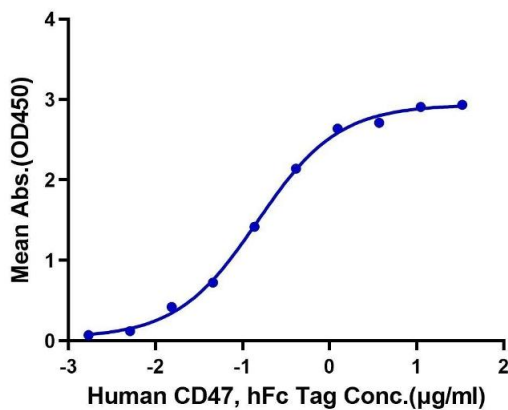
Image 1. Human SIRP alpha V2, His Tag captured on Protein A Chip via Anti-His Antibody can bind Anti-SIRP alpha Ab., hFc Tag with an affinity constant of 9.11nM as determined in SPR assay (Biacore T200).



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Human SIRP alpha V2 is greater than 95 % as determined by SEC-HPLC.

Human SIRPA V2, His Tag ELISA
0.1ug Human SIRPA V2, His Tag Per Well



ELISA

Image 3. Immobilized Human SIRP alpha V2, His Tag at 1 µg/mL (100 µL/Well) on the plate. Dose response curve for Human CD47, hFc Tag with the EC50 of 0.15 µg/mL determined by ELISA.

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN7275653.