

# Biotinylated Recombinant Human SIRP-alpha/CD172a Protein

Catalog No.: RP02561B **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	140885	P78324 variant 6

### Tags

C-His&Avi

### Synonyms

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

## Product Information

Source	Purification
HEK293 cells	> 95% by Tris-Bis PAGE and HPLC

### Endotoxin

< 1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization. Contact us for customized product form or formulation.

### Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## Background

Signal regulatory protein α (SIRPα) is a regulatory membrane glycoprotein from SIRP family expressed mainly by myeloid cells and also by stem cells or neurons. SIRPα 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.

## Basic Information

### Description

Biotinylated Recombinant Human SIRP alpha V6 Protein is expressed from Expi293 with His tag and Avi tag at the C-terminal. It contains Glu31-Arg370. (The difference with SIRP alpha is in amino acid number 105, change from Ser105 to Pro105.)

### Bio-Activity

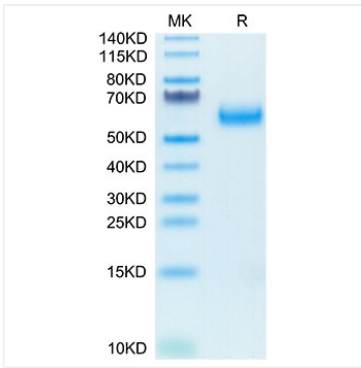
#### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt.

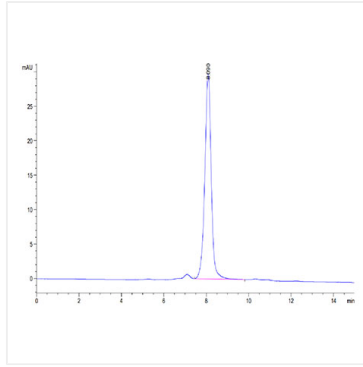
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

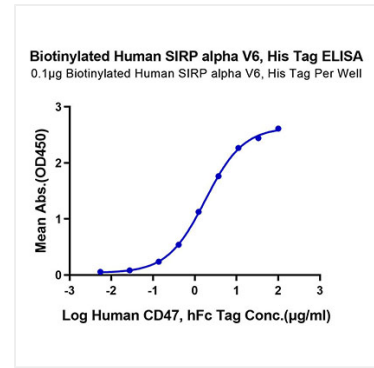
## Validation Data



Biotinylated Human SIRP alpha V6 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of Biotinylated Human SIRP alpha V6 is greater than 95% as determined by SEC-HPLC.



Immobilized Biotinylated Human SIRP alpha V6, His Tag at 1µg/ml (100µl/Well) on the plate. Dose response curve for Human CD47, hFc Tag with the EC<sub>50</sub> of 1.8µg/ml determined by ELISA.