

# Recombinant Cynomolgus SIRP alpha/CD172a Protein

Catalog No.: RP02638 **Recombinant**

## Sequence Information

**Species** Cynomolgus  
**Gene ID** 101926317  
**Swiss Prot** I7G9Z7

### Tags

C-His

### 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% as determined by Tris-Bis PAGE > 95% as determined by HPLC

### Endotoxin

Less than 1EU per µg by the LAL method.

### 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  $\alpha$  (SIRP $\alpha$ ) is a regulatory membrane glycoprotein from SIRP family expressed mainly by myeloid cells and also by stem cells or neurons. SIRP $\alpha$  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  $\alpha$  and inhibit macrophage-mediated destruction.

## Basic Information

### Description

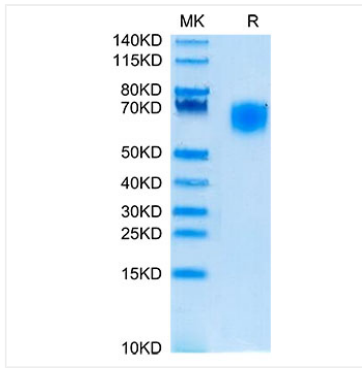
Recombinant Cynomolgus SIRP alpha/CD172a NP\_001271679.1 Protein is expressed from Expi293 with His tag at the C-terminal. It contains Glu31-Arg370.

### Bio-Activity

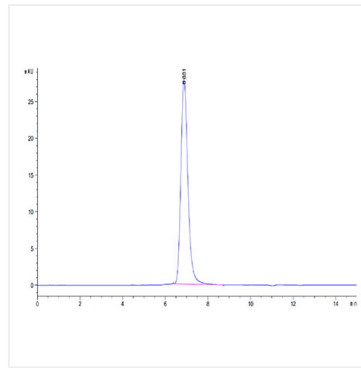
### Storage

Store the lyophilized protein at -20°C to -80°C for long term. 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.

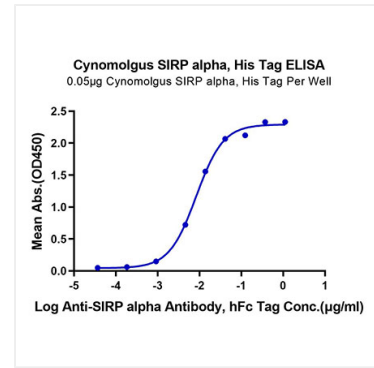
## Validation Data



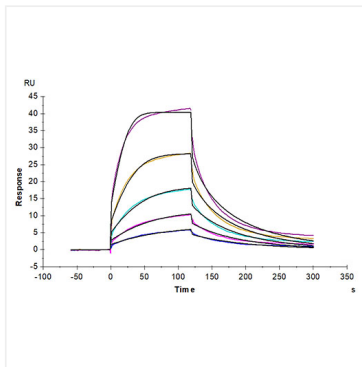
Cynomolgus SIRP alpha on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



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



Immobilized Cynomolgus SIRP alpha, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-SIRP alpha Antibody, hFc Tag with the  $EC_{50}$  of 8.3ng/ml determined by ELISA.



Cynomolgus SIRP alpha, His Tag immobilized on CM5 Chip can bind Cynomolgus /Rhesus macaque CD47, His Tag with an affinity constant of 63.27 nM as determined in SPR assay (Biacore T200).