

RP00285

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# Recombinant Human SIRP- $\alpha$ /CD172a Protein

Catalog No.: RP00285

Recombinant

## Sequence Information

| Species      | Gene ID | Swiss Prot |
|--------------|---------|------------|
| HEK293 cells | 140885  | P78324     |

### Tags

C-His

### Synonyms

BIT; CD172A; MFR; MYD-1; P84;  
PTPNS1; SHPS1;  
SIRP; SIRPA; CD172A; MFR; MYD-1; P84; P  
TPNS1; SHPS1; SIRP

## Product Information

| Source       | Purification       |
|--------------|--------------------|
| HEK293 cells | > 97% by SDS-PAGE. |

### Endotoxin

< 0.1 EU/ $\mu$ g of the protein by LAL method.

### Formulation

Lyophilized from a 0.22  $\mu$ m filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

### Reconstitution

Centrifuge the vial 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.

## Background

The protein is a member of the signal-regulatory-protein (SIRP) family, and also belongs to the immunoglobulin superfamily. SIRP family members are receptor-type transmembrane glycoproteins known to be involved in the negative regulation of receptor tyrosine kinase-coupled signaling processes. This protein can be phosphorylated by tyrosine kinases. The phospho-tyrosine residues of this PTP have been shown to recruit SH2 domain containing tyrosine phosphatases (PTP), and serve as substrates of PTPs. This protein was found to participate in signal transduction mediated by various growth factor receptors. CD47 has been demonstrated to be a ligand for this receptor protein.

## Basic Information

### Description

Recombinant Human SIRP- $\alpha$ /CD172a Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Glu31-Arg370) of human SIRP  $\alpha$ /CD172a (Accession #NP\_542970) fused with a 6 $\times$ His tag at the C-terminus.

### Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human SIRPA at 5  $\mu$ g/mL (100  $\mu$ L/well) can bind Recombinant Human CD47 with a linear range of 0.1-0.4  $\mu$ g/mL.

### Storage

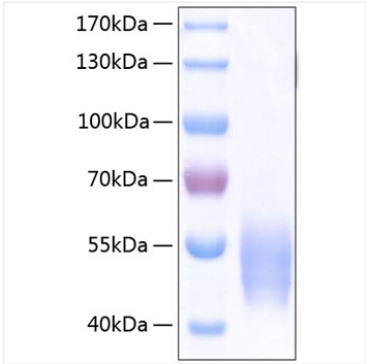
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

## Contact

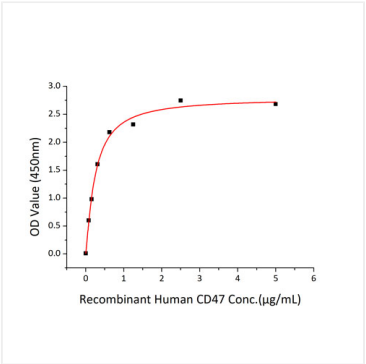


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# Validation Data



Recombinant Human SIRP alpha/CD172a Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 45-57 kDa.



Immobilized Recombinant Human SIRPA at 5µg/mL (100 µL/well) can bind Recombinant Human CD47 with a linear range of 0.1-0.4 µg/mL.