

# Human SIRP alpha/CD172a (His Tag) recombinant protein



Catalog Number: 501315

## General Information

### Gene Name Synonym

Brain Ig-like molecule with tyrosine-based activation motifs; CD172 antigen-like family member A; Inhibitory receptor SHPS-1; Macrophage fusion receptor; MyD-1 antigen; Signal-regulatory protein alpha-1; Signal-regulatory protein alpha-2; Signal-regulatory protein alpha-3; p84

### Protein Construction

A DNA sequence encoding the human SIRPA (NP\_542970.1) extracellular domain (Met 1-Arg 370) was expressed, fused with a polyhistidine tag at the C-terminus.

### Organism

Human

### Expression Host

Human Cells

## QC Testing

### Activity

Measured by its binding ability in a functional ELISA.

Immobilized human SIRPA-His at 10 µg/ml (100 µl/well) can bind human CD47-Fc (Cat:504230), The EC<sub>50</sub> of human CD47-Fc (Cat:504230) is 10.1-23.5 ng/ml.

### Purity

> 98 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per µg of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

Glu 31

### Molecular Mass

The recombinant human SIRPA consists of 351 amino acids and predicts a molecular mass of 39 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rhSIRPA is approximately 45-50 kDa due to glycosylation.

### Formulation

Lyophilized from sterile PBS, pH 7.4  
1. 5 % trehalose and mannitol are added as protectants before lyophilization.  
2. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

### SDS-PAGE

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