## 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  $\mu$ g/ml (100  $\mu$ l/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  $\mu g$  of the protein as determined by the LAL method

#### **Stability**

Samples are stable for up to twelve months from date of receipt at -70  $^{\circ}\text{C}$ 

#### Predicted N terminal

Glu 31

#### **Molecular Mass**

The recombinant human SIRPA consists of 351 amino acids and predictes 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

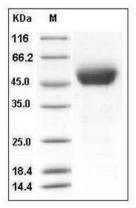
Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

#### **SDS-PAGE**

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 $\begin{array}{l} \mbox{Human SIRP alpha / CD172a Protein (His Tag)} \\ \mbox{SDS-PAGE} \end{array}$