

# Recombinant Cynomolgus SIRP-alpha/CD172a Protein

Catalog No.: RP02638 Recombinant

## **Sequence Information**

**Species Gene ID Swiss Prot** Cynomolgus 101926317 17G9Z7

## 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; SIRPalpha2; Sirp-alpha-2; Sirp-alpha-3

## **Product Information**

# Source Purification

HEK293 cells

≥ 95 % as determined by Tris-Bis PAGE;≥ 95 % as determined by HPLC.

## Calculated MW Observed MW

38.2 kDa 60-70 kDa

#### **Endotoxin**

< 1 EU/ $\mu g$  of the protein by 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 stablizer (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 Protein is produced by Expi293 expression system. The target protein is expressed with sequence ( Glu31-Arg370) of Cynomolgus CD172a fused with His tag at the C-terminus.

## **Bio-Activity**

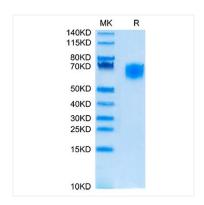
#### Storage

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

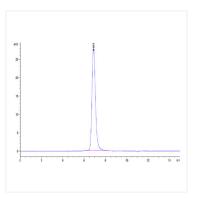
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

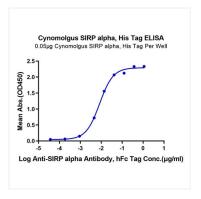
## **Validation Data**



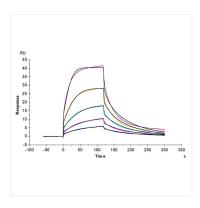
Recombinant Cynomolgus SIRPalpha/CD172a Protein was determined by Tris-Bis PAGE under reducing conditions.



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



Immobilized Cynomolgus SIRP alpha, His Tag at  $0.5\mu g/ml$  ( $100\mu l/Well$ ) on the plate. Dose response curve for Anti-SIRP alpha Antibody, hFc Tag with the EC $_{50}$  of 8.3 mg/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).