

Biotinylated Recombinant Human SIRP-alpha/CD172a Protein

Catalog No.: RP02561B Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 140885 P78324 variant 6

Tags

C-His&Avi

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

39.9 kD 60-65 kDa

Endotoxin

< 1 EU/ μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization. Contact us for customized product form or 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.

Background

Signal regulatory protein α (SIRP α) is a regulatory membrane glycoprotein from SIRP family expressed mainly by myeloid cells and also by stem cells or neurons. SIRP α 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 α and inhibit macrophage-mediated destruction.

Basic Information

Description

Biotinylated Recombinant Human SIRP alpha V6 Protein is expressed from Expi293 with His tag and Avi tag at the C-terminal. [It contains Glu31-Arg370. (The difference with SIRP alpha is in amino acid number 105, change from Ser105 to Pro105.)

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

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 $^{\circ}$ C for 3 months, at 2-8 $^{\circ}$ C for up to 1 week.

Avoid repeated freeze/thaw cycles.

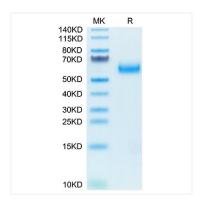
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

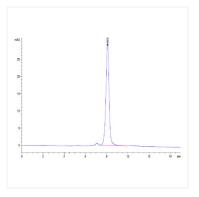
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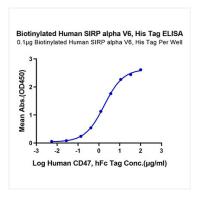
Validation Data



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



The purity of Biotinylated Human SIRP alpha V6 is greater than 95% as determined by SEC-HPLC.



Immobilized Biotinylated Human SIRP alpha V6, His Tag at 1 μ g/ml (100 μ l/Well) on the plate. Dose response curve for Human CD47, hFc Tag with the EC₅₀ of 1.8 μ g/ml determined by ELISA.