

Biotinylated Recombinant Human SIRP- α /CD172a Protein

Catalog No.: RP02561B

Sequence Information

Species **Gene ID**
Human 140885

Swiss Prot **Tags**
P78324 variant 6 C-His&Avi

Synonyms

CD172a; BIT; MFR; MYD1; MYD-1; P84; PTPNS1; SHP substrate 1; SHPS1; SHPS-1; SHPS1CD172A; SIRP α ; SIRPA; Sirp- α -1; SIRPalph2; Sirp- α -2; Sirp- α -3

Product Information

Source **Purification**
HEK293 cells $\geq 95\%$ as determined by Tris-Bis PAGE; $\geq 95\%$ as determined by HPLC.

Calculated MW **Observed MW**
39.9 kD 60–65 kDa

Endotoxin

< 1 EU/ μ g of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μ m 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5%

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

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

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

Contact

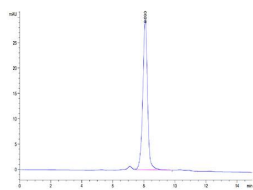
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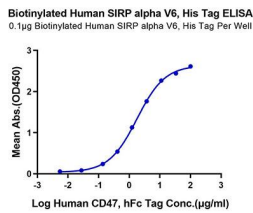
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Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

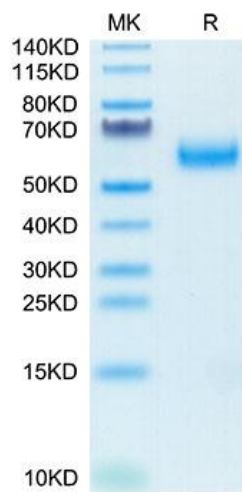
Validation Data



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 1µg/ml (100µl/Well) on the plate. Dose response curve for Human CD47, hFc Tag with the EC₅₀ of 1.8µg/ml determined by ELISA.



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