

Human SIRP alpha V2/CD172a Protein

Cat. No. SRP-HM2V2

Description

Source	Recombinant Human SIRP alpha V2/CD172a Protein is expressed from Expi293 with hFc tag at the C-terminal. It contains Glu31-Arg369.
Accession	AAH26692.1
Molecular Weight	The protein has a predicted MW of 63.9 kDa. Due to glycosylation, the protein migrates to 75-85 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

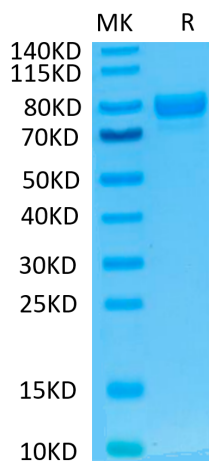
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended (usually we use 1mg/ml solution for lyophilization). Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please avoid freeze-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.

Assay Data

Tris-Bis PAGE



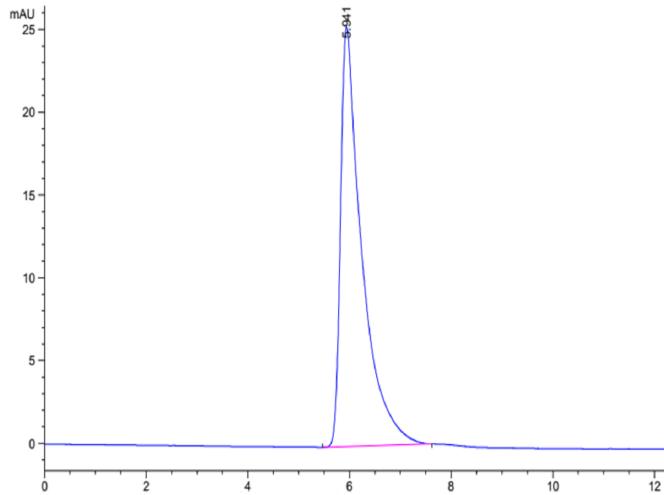
Human SIRP alpha V2/CD172a on Tris-Bis PAGE under reduced condition. The purity is greater than 95%..

SEC-HPLC

Human SIRP alpha V2/CD172a Protein

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Assay Data

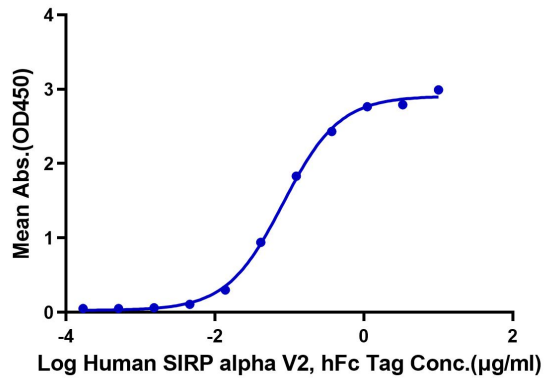


The purity of Human SIRP alpha V2/CD172a is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human SIRP alpha V2, hFc Tag ELISA

0.1 μ g Human CD47, His Tag Per Well



Immobilized Human CD47 at 1 μ g/ml (100 μ l/Well). Dose response curve for Human SIRP alpha V2, hFc Tag with the EC50 of 82.3ng/ml determined by ELISA.