

Biotinylated Human SIRP alpha/CD172a Protein

Cat. No. SRP-HM572B

Description

Source	Recombinant Biotinylated Human SIRP alpha/CD172a Protein is expressed from HEK293 with hFc tag and Avi tag at the C-Terminus. It contains Glu31-Arg370.
Accession	P78324-1
Molecular Weight	The protein has a predicted MW of 66.1 kDa. Due to glycosylation, the protein migrates to 78-90 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

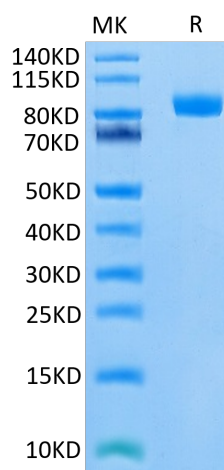
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled 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 minimize freeze-thaw cycles.

Background

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

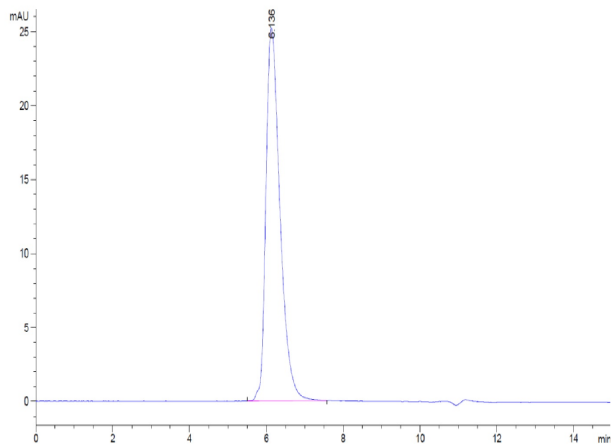
Tris-Bis PAGE



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

SEC-HPLC

Assay Data



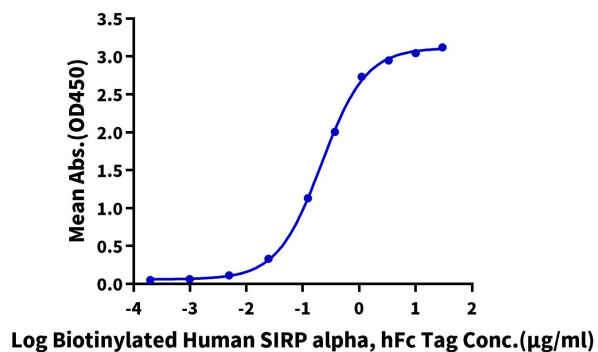
The purity of Biotinylated Human SIRP alpha is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Biotinylated Human SIRP alpha, hFc Tag ELISA

0.2µg Human CD47, His Tag Per Well



Immobilized Human CD47, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human SIRP alpha, hFc Tag with the EC50 of 0.22µg/ml determined by ELISA.