

# 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 Bis-Tris PAGE result.
Endotoxin	Less than 1EU per $\mu\text{g}$ by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

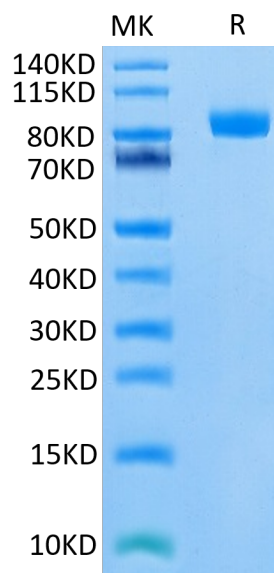
Formulation and Storage	
Formulation	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

**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.

## Assay Data

### Bis-Tris PAGE



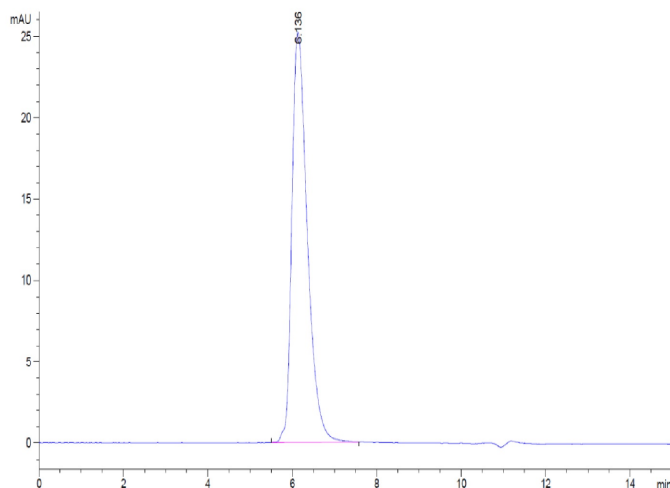
Biotinylated Human SIRP alpha on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

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## Assay Data

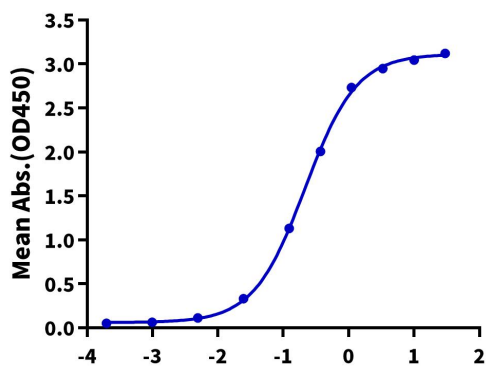


The purity of Biotinylated Human SIRP alpha is greater than 95% as determined by SEC-HPLC.

## ELISA Data

### Biotinylated Human SIRP alpha, hFc Tag ELISA

0.2  $\mu$ g Human CD47, His Tag Per Well



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