

Cynomolgus SIRP alpha/CD172a Protein, Ultra Low Endotoxin



Cat. No. SRP-CM172-UL

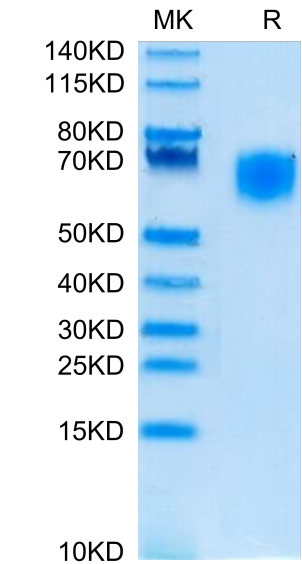
Description	
Source	Recombinant Cynomolgus SIRP alpha/CD172a Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Glu31-Arg370.
Accession	NP_001271679.1
Molecular Weight	The protein has a predicted MW of 38.2 kDa. Due to glycosylation, the protein migrates to 60-70 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris 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	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
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 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

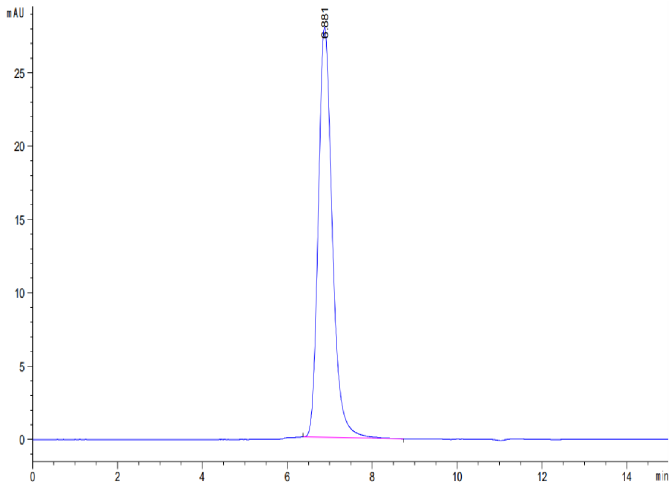
Bis-Tris PAGE



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

SEC-HPLC

Assay Data

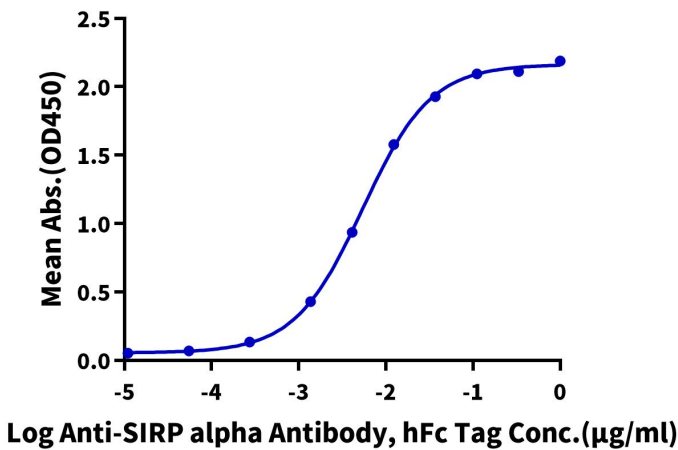


The purity of Cynomolgus SIRP alpha is greater than 95% as determined by SEC-HPLC.

ELISA Data

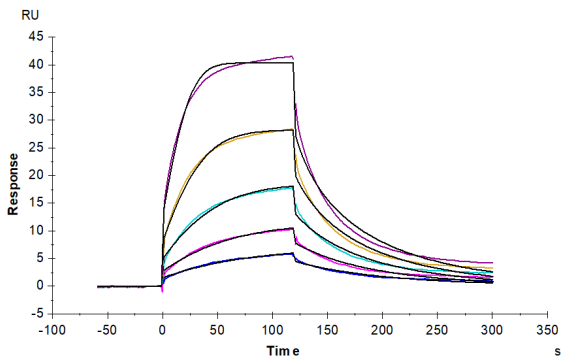
Cynomolgus SIRP alpha, His Tag ELISA

0.05µg Cynomolgus SIRP alpha, His Tag Per Well



Immobilized Cynomolgus SIRP alpha, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-SIRP alpha Antibody, hFc Tag with the EC50 of 5.4ng/ml determined by ELISA (QC Test).

SPR Data



Cynomolgus SIRP alpha, His Tag immobilized on CM5 Chip can bind Cynomolgus /Rhesus macaque CD47, His Tag with an affinity constant of 63.27 nM as determined in SPR assay (Biacore T200).