

Cynomolgus SIRP alpha/CD172a Protein

Cat. No. SRP-CM172

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 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

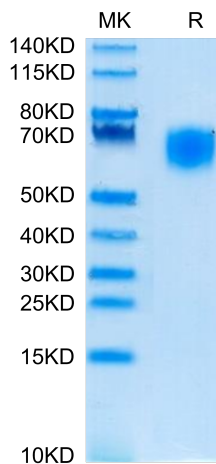
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months 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 (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

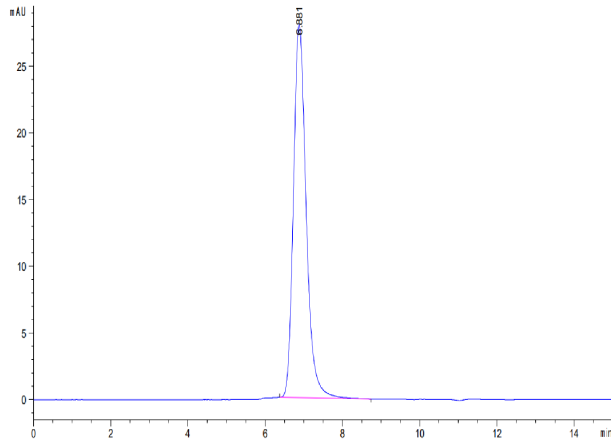
Tris-Bis PAGE



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

SEC-HPLC

Assay Data



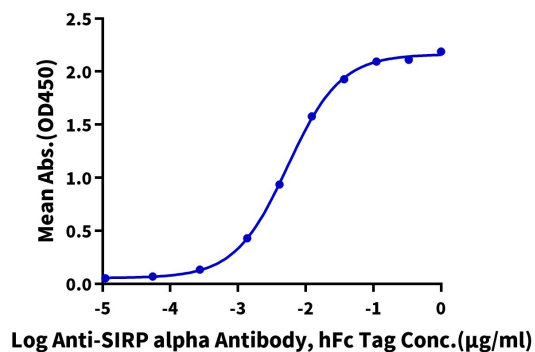
The purity of Cynomolgus SIRP alpha is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

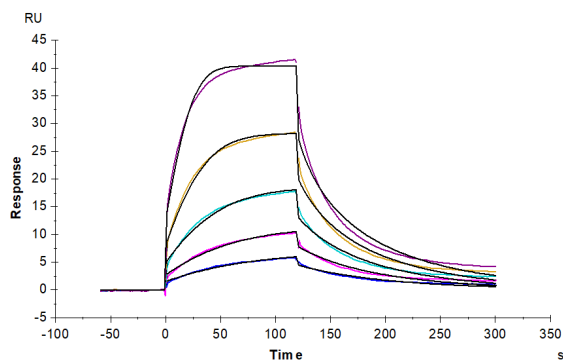
Cynomolgus SIRP alpha, His Tag ELISA

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).