

Cynomolgus SIRP alpha/CD172a Protein

Cat. No. SRP-CM172

Description

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|-------------------------|--|
| 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 1EU per μg by the LAL method. |
| Purity | > 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC |

Formulation and Storage

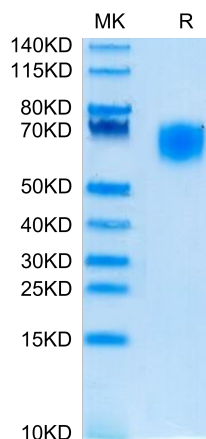
| | |
|-----------------------|---|
| Formulation | Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| Reconstitution | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ 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 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.

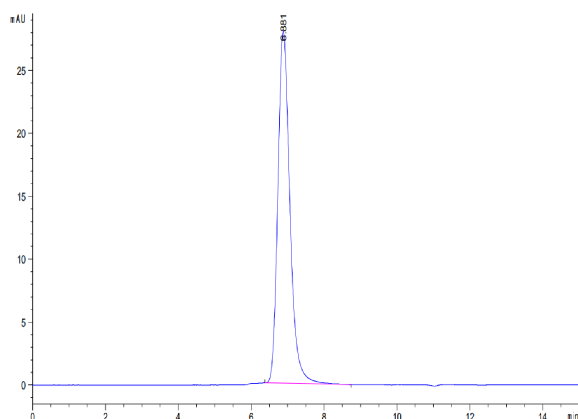
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



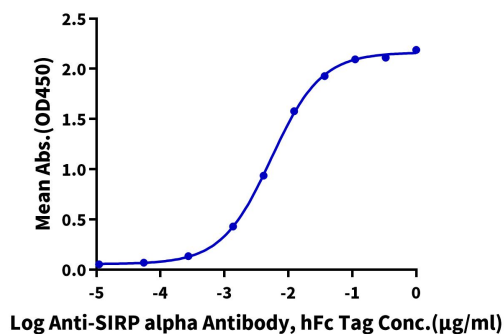
The purity of Cynomolgus SIRP alpha is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

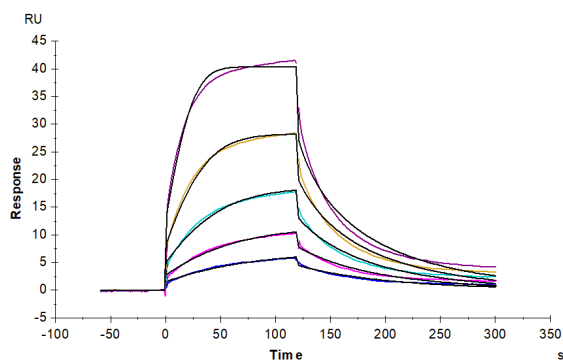
Cynomolgus SIRP alpha, His Tag ELISA

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).