

Human SIRP alpha V4 Protein

Cat. No. SRP-HM4V4



Description

Source	Recombinant Human SIRP alpha V4 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Glu31-Arg370(E33G, L44S, T50S, T52I, R54H).
Accession	P78324 variant 4
Molecular Weight	The protein has a predicted MW of 39.8 kDa. Due to glycosylation, the protein migrates to 50-70 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

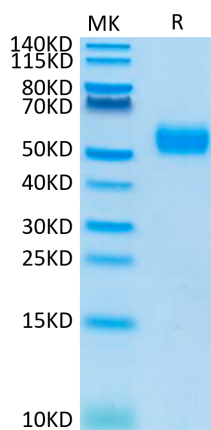
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled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

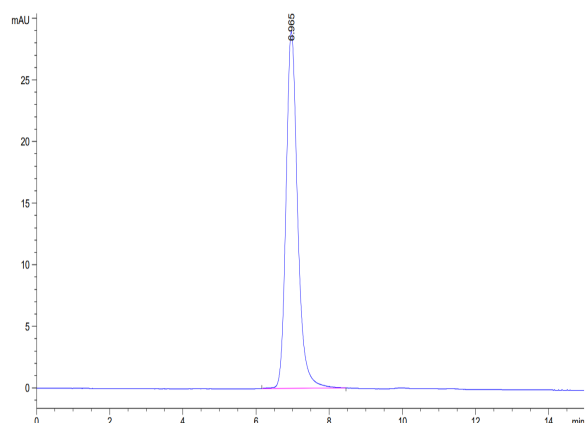
Assay Data

Bis-Tris PAGE



Human SIRP alpha V4 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



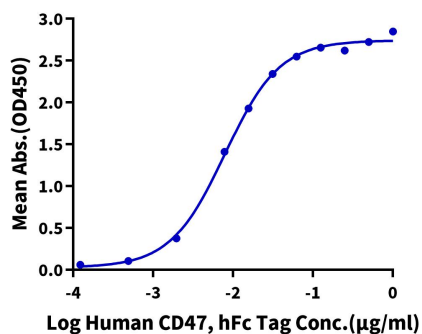
The purity of Human SIRP alpha V4 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human SIRP alpha V4, His Tag ELISA

0.5µg Human SIRP alpha V4, His Tag Per Well



Immobilized Human SIRP alpha V4, His Tag at 5µg/ml (100µl/Well). Dose response curve for Human CD47, hFc Tag with the EC50 of 7.9ng/ml determined by ELISA (QC Test).