

Human SIRP alpha V8 Protein



Cat. No. SRP-HM4V8

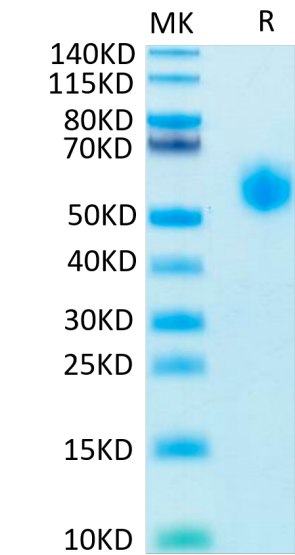
Description	
Source	Recombinant Human SIRP alpha V8 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Glu31-Arg369(S44L, S50T, I52T, H54R, V57A).
Accession	ATD50864.1
Molecular Weight	The protein has a predicted MW of 40.1 kDa. Due to glycosylation, the protein migrates to 52-68 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 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 24 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

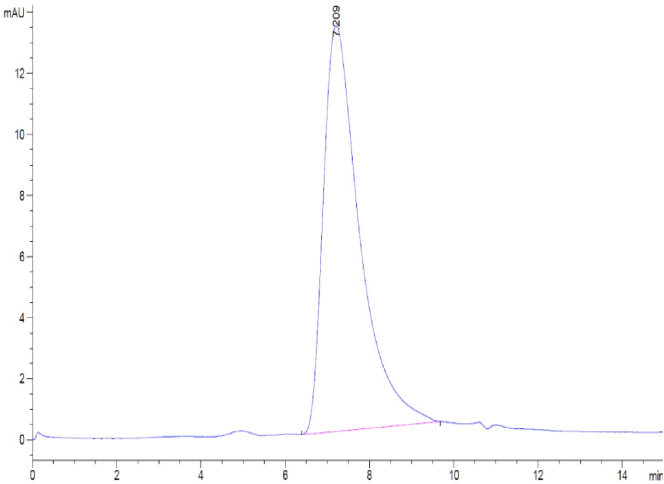
Bis-Tris PAGE



Human Sirpa V8 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

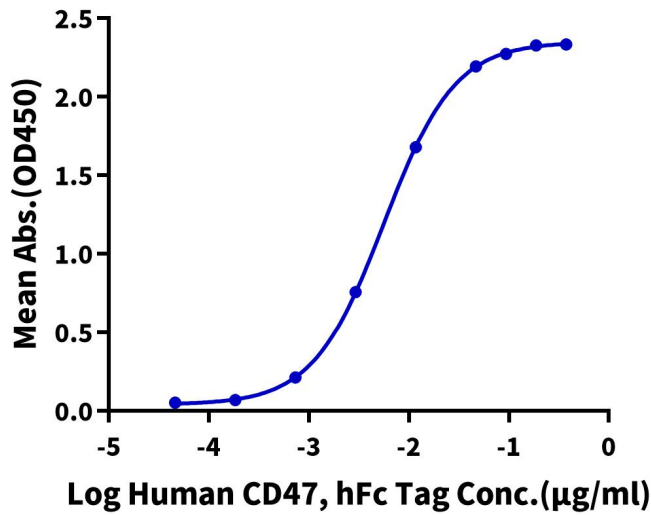
Assay Data



The purity of Human Sirpa V8 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human SIRP alpha V8, His Tag ELISA
0.2µg Human SIRP alpha V8, His Tag Per Well



Immobilized Human SIRP alpha V8, His Tag at 2µg/ml (100µl/Well) on the plate. Dose response curve for Human CD47, hFc Tag with the EC50 of 5.6ng/ml determined by ELISA.