# Human SIRP alpha V8 Protein

**Cat. No.** SRP-HM4V8

## Description

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|---|---|
| **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 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

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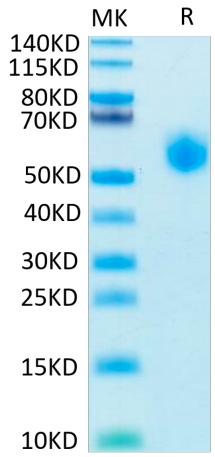
| **Formulation** | Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| **Reconstitution** | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized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

**Tris-Bis PAGE**




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

**SEC-HPLC**

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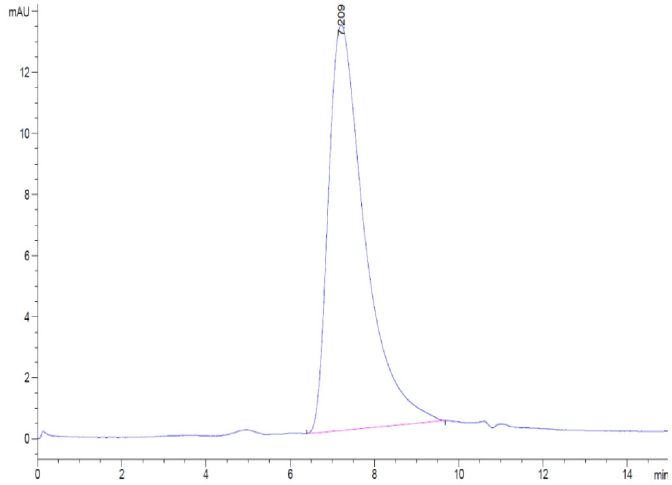
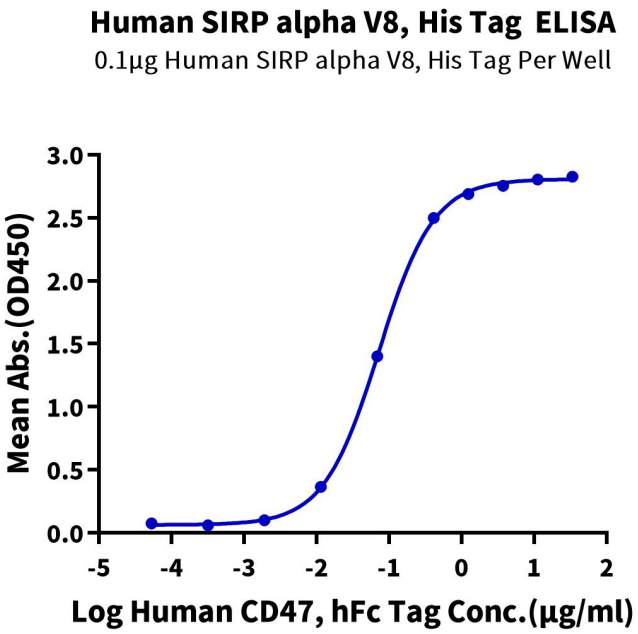
## Assay Data




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

ELISA Data




Immobilized Human SIRP alpha V8, His Tag at 1μg/ml (100μl/Well) on the plate. Dose response curve for Human CD47, hFc Tag with the EC50 of 71.3ng/ml determined by ELISA.