

**Synonym**

Streptavidin,SA

**Source**

Recombinant Streptavidin (STN-N5116) is expressed from E.coli cells.

**Molecular Characterization**

This protein carries no "tag". The protein has a calculated MW of 13.8 kDa.

The protein is designed as a tetramer.

**Application**

ELISA assay

**Purity**

&gt;95% as determined by SDS-PAGE.

&gt;95% as determined by SEC-MALS.

**Formulation**Lyophilized from 0.22  $\mu$ m filtered solution in NaCl, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

**Reconstitution**

Please see Certificate of Analysis for specific instructions.

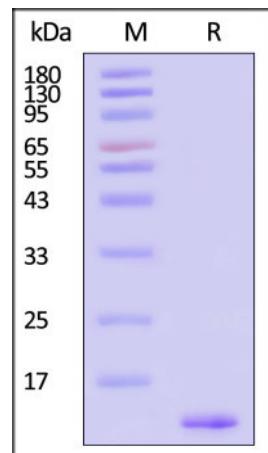
*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.***Storage**

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

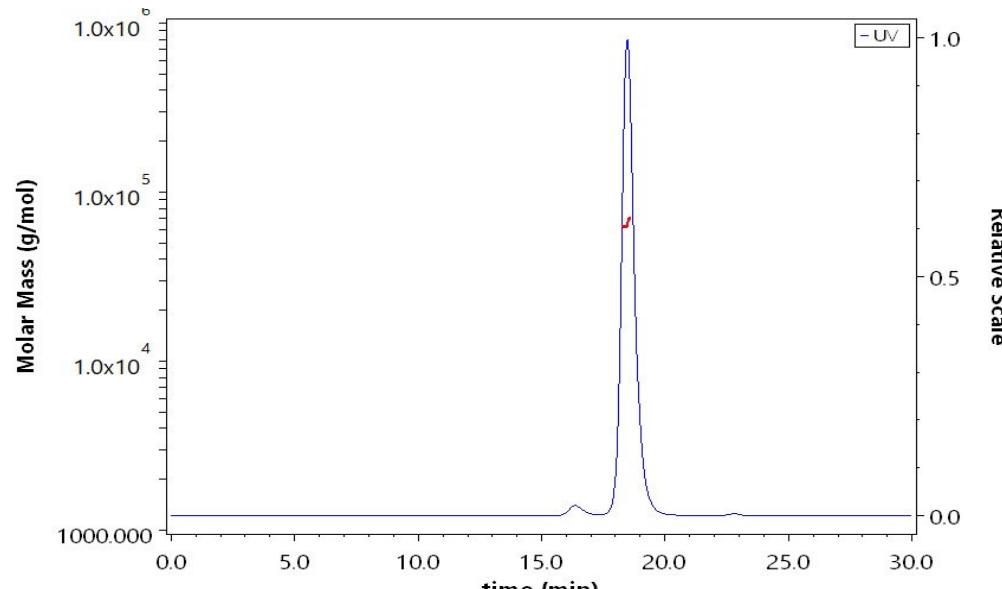
*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 2 years in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

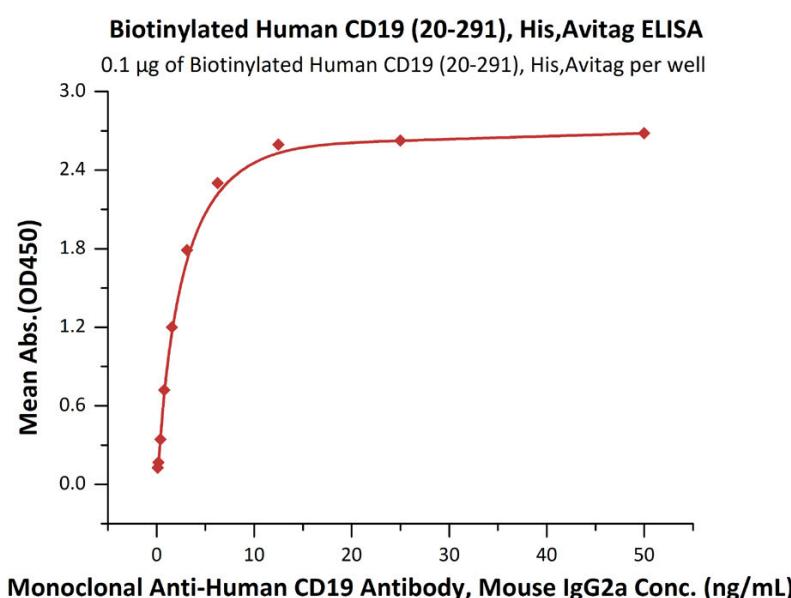
**SDS-PAGE**

The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

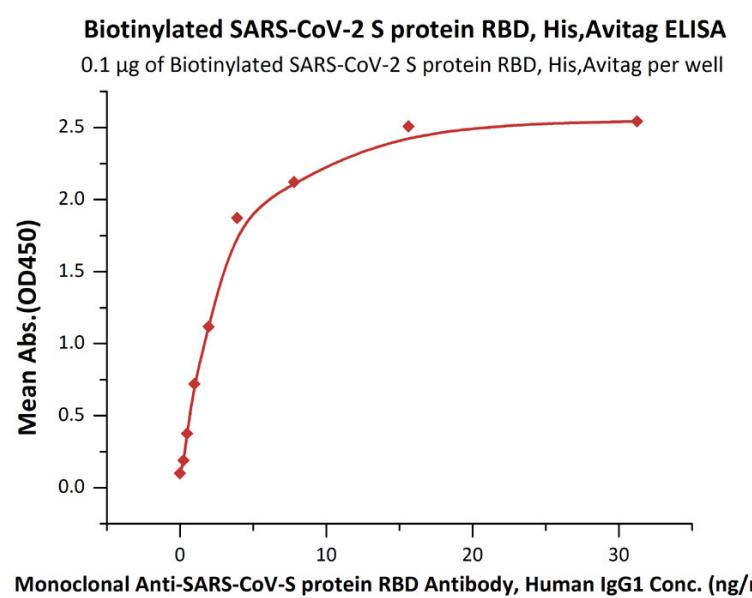
**SEC-MALS**

The purity of Recombinant Streptavidin (Cat. No. STN-N5116) is more than 95% and the molecular weight of this protein is around 54-67 kDa verified by SEC-MALS.

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Immobilized Biotinylated Human CD19 (20-291), His,Avitag (Cat. No. CD9-H82E9) at 1 µg/mL (100 µL/well) on Streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate, can bind Monoclonal Anti-Human CD19 Antibody, Mouse IgG2a with a linear range of 0.1-6 ng/mL (QC tested).



Immobilized Biotinylated SARS-CoV-2 S protein RBD, His,Avitag (Cat. No. SPD-C82E9) at 1 µg/mL (100 µL/well) on Streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate, can bind Monoclonal Anti-SARS-CoV-S protein RBD Antibody, Human IgG1 with a linear range of 0.1-4 ng/mL (Routinely tested).

## Background

Streptavidin is a tetrameric protein purified from the bacterium *Streptomyces avidinii*, and exhibits high binding affinity for biotin. Able to bind one molecule of biotin with each subunit. Streptavidin (PI=6.0-7.5) has lower level of non-specific binding to various biological components at physiological pH than avidin (PI=7.4), resulting from its isoelectric point (PI). Streptavidin is useful in affinity chromatography, ELISA, immunohistochemistry and Western Blotting.

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and more!

