

# Recombinant Streptavidin Protein (MALS verified)

Catalog # STN-N5116



## 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.

## Application

ELISA assay

## Endotoxin

Less than 1.0 EU per  $\mu\text{g}$  by the LAL method.

## Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

## Formulation

Lyophilized from 0.22  $\mu\text{m}$  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

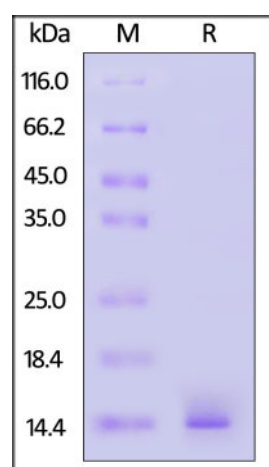
For long term storage, the product should be stored at lyophilized state at  $-20^{\circ}\text{C}$  or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

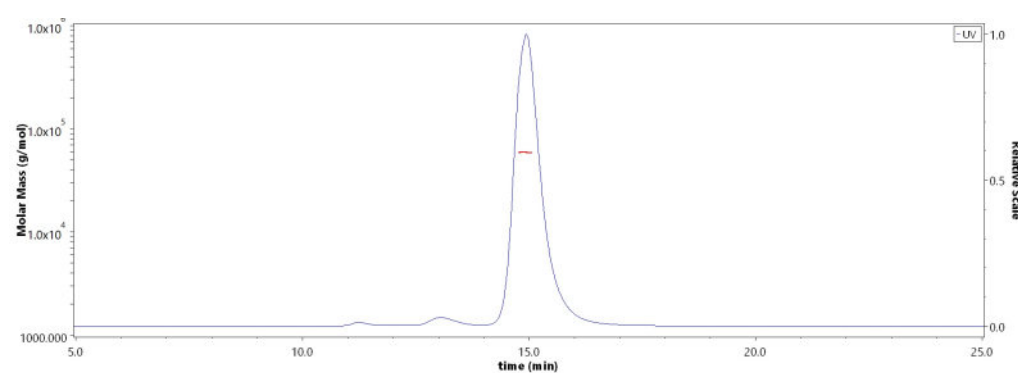
- $-20^{\circ}\text{C}$  to  $-70^{\circ}\text{C}$  for 2 years in lyophilized state;
- $-70^{\circ}\text{C}$  for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

## SEC-MALS



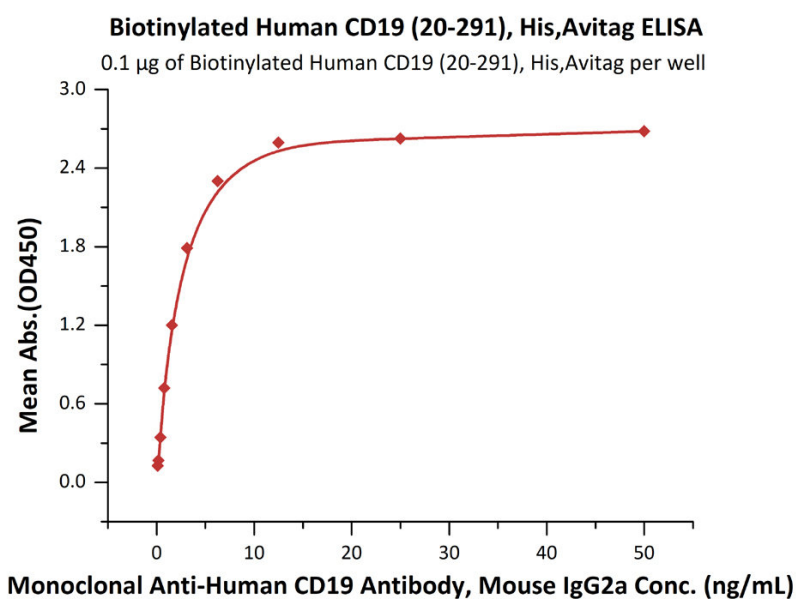
The purity of Recombinant Streptavidin (Cat. No. STN-N5116) is more than 95% and the molecular weight of this protein is around 54-60 kDa verified by SEC-MALS.

[Report](#)

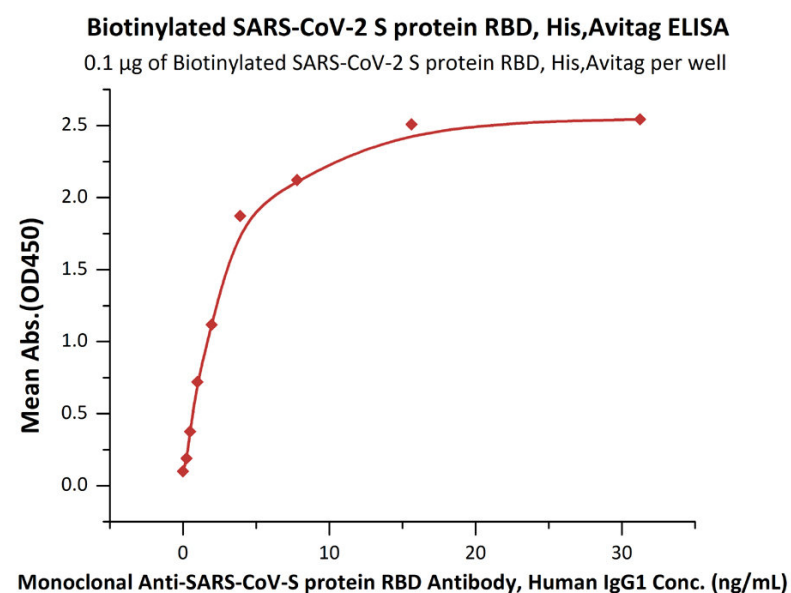
## Bioactivity-ELISA

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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.

## Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.

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