



## Synonym

Streptavidin,SA

## Source

Streptavidin Protein-Cy5(STN-NC113) is expressed from E. coli cells.

## Molecular Characterization

This protein carries no "tag".

The protein has a calculated MW of 13.8 kDa.

## Conjugate

Cy5

Excitation Wavelength: 651 nm

Emission Wavelength: 670 nm

## Labeling

*The primary amines in the side chains of lysine residues and the N-terminus of the protein are conjugated with Cy5 using standard chemical labeling method. The residual Cy5 is removed by molecular sieve treatment during purification process.*

## Endotoxin

Less than 1.0 EU per µg by the LAL method.

## Purity

>90% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22 µm filtered solution in PBS, 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

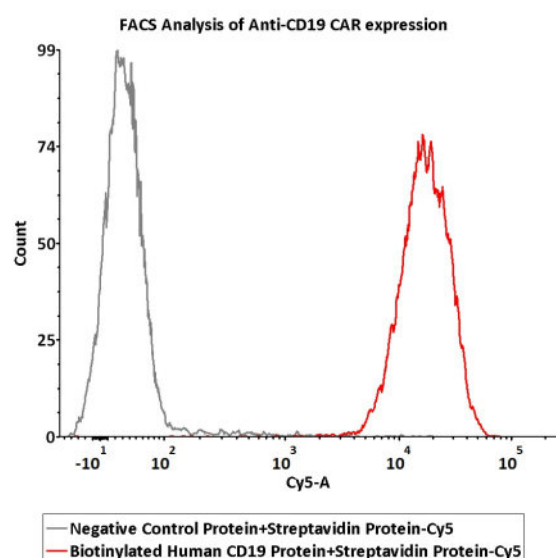
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please protect from light and avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## Bioactivity-FACS



5e5 of Anti-CD19 CAR-293 cells were stained with 100 µL of 20 µg/mL Biotinylated Human CD19 (20-291) Protein, Fc, Avitag™, premium grade (Cat. No. CD9-H82F6) and negative control protein respectively, washed and then followed with 2.5 µg/mL of Streptavidin Protein-Cy5 (Cat. No. STN-NC113) and analyzed with FACS. Cy5 signal was used to evaluate the binding activity (QC tested).

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# Streptavidin Protein-Cy5

Catalog # STN-NC113



BIOSYSTEMS  
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## Background

Streptavidin is a 66KDa tetrameric protein purified from the bacterium *Streptomyces avidinii*, and exhibits high binding affinity to biotin. Each unit can bind one biotin. Horseradish peroxidase is metalloenzyme, a 44KDa glycoprotein. When incubate with substrates, it produces a coloured, fluorimetric, or luminescent derivatives, which can be detected and quantified. HRP conjugated Streptavidin is widely used for the detection and quantification of biotinylated proteins.

## 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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11/23/2023