



## Synonym

Streptavidin,SA

## Source

Streptavidin Protein-FITC (STN-NF113) is expressed from E. coli cells.

## Molecular Characterization

The protein has a calculated MW of 13.8 kDa.

## Conjugate

FITC

Excitation source: 488 nm spectral line, argon-ion laser

Excitation Wavelength: 488 nm

Emission Wavelength: 535 nm

## Labeling

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

## Protein Ratio

The FITC to protein molar ratio is 3-6.

## Application

Flow Cytometry

## 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

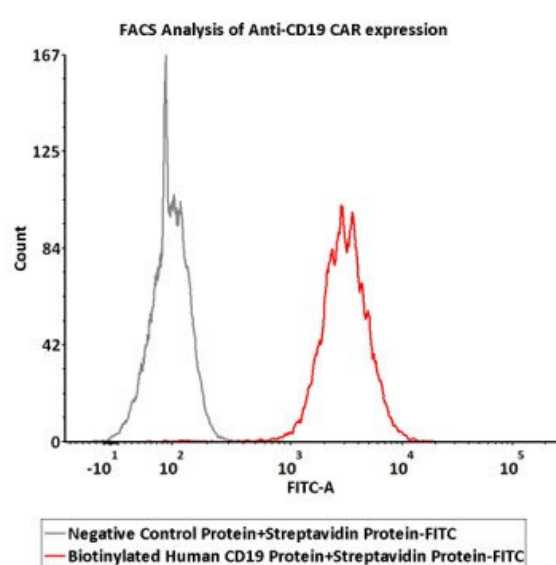
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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



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## Streptavidin Protein-FITC

Catalog # STN-NF113



BIOSYSTEMS  
**Acro**

5e5 of Anti-CD19 CAR-293 cells were stained with 100  $\mu$ L of 20  $\mu$ g/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 1.25  $\mu$ g/mL of Streptavidin Protein-FITC (Cat. No. STN-NF113) and analyzed with FACS. FITC signal was used to evaluate the binding activity (QC 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

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