



## Synonym

Streptavidin,SA

## Source

Streptavidin Protein-Texas Red(STN-NT113) is expressed from E. coli cells.

## Molecular Characterization

This protein carries no "tag".

The protein has a calculated MW of 13.8 kDa.

## Conjugate

Texas Red

Excitation Wavelength: 586 nm

Emission Wavelength: 603 nm

## Labeling

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

## Purity

>95% 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

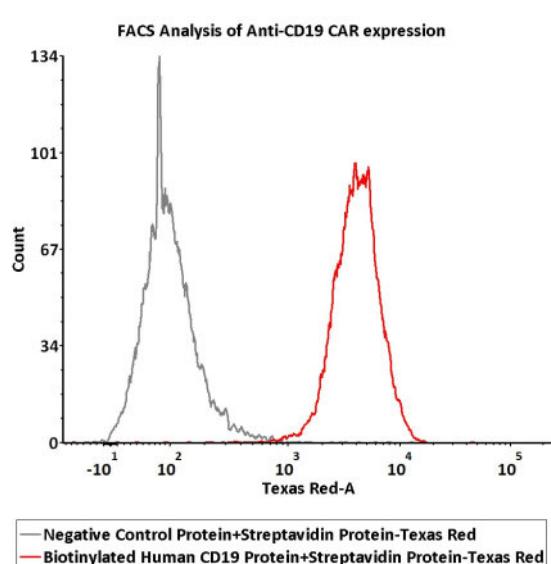
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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 1 µg/mL of Streptavidin Protein-Texas Red (Cat. No. STN-NT113) and analyzed with FACS. Texas Red signal was used to evaluate the binding activity (QC tested).

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## Background

The Streptavidin Protein Europium chelate is a universal tool for TR-FRET assays that can bind biotinylated molecules. This product uses high-purity streptavidin (SA) covalently conjugated with Eu<sup>3+</sup> chelate, and it can be used in combination with other Acceptors directly or indirectly labeled with fluorescent dyes. When the Donor and Acceptor come into close proximity (within a distance of less than 10 nm), a FRET reaction occurs: the 620 nm signal emitted by the Donor upon excitation by a specific light source is received by the Acceptor, which then emits a 665 nm signal.

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