



## Synonym

Streptavidin,SA

## Source

Streptavidin Protein-Alexa Fluor 555(STN-NA115) 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 migrates as 15 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE).

The protein is designed as a tetramer.

## Conjugate

AF555

Excitation Wavelength: 561 nm

Emission Wavelength: 572 nm

## Labeling

*The primary amines in the side chains of lysine residues and the N-terminus of the protein are conjugated with AF555 using standard chemical labeling method. The residual AF555 is removed by molecular sieve treatment during purification process.*

## Protein Ratio

The AF555 to protein molar ratio is 2-3.

## Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-HPLC.

## 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

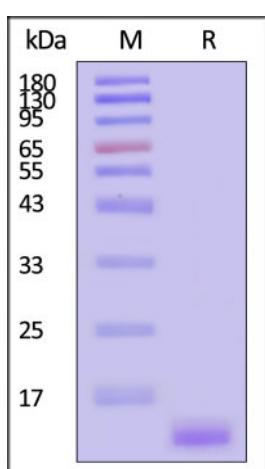
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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

This product is stable after storage at:

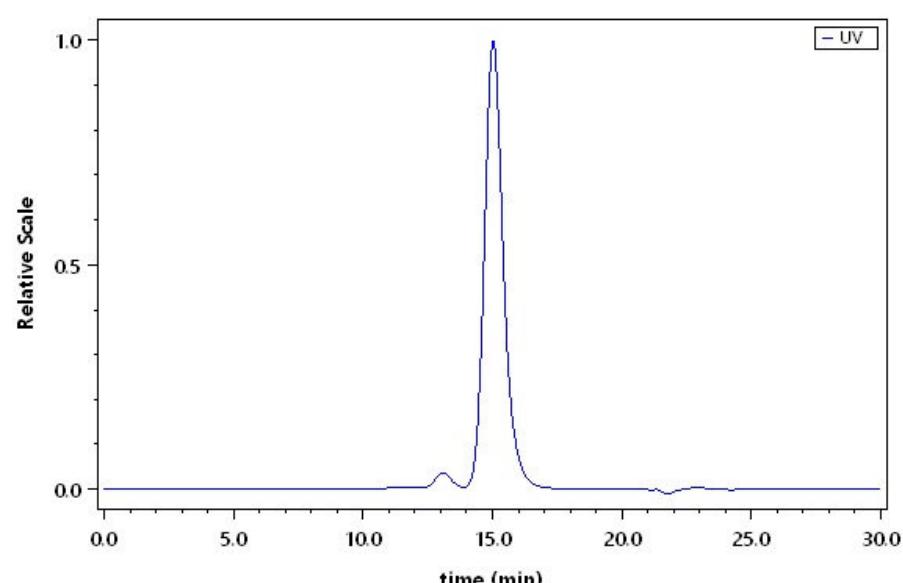
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



Streptavidin Protein-Alexa Fluor 555 on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

## SEC-HPLC



The purity of Streptavidin Protein-Alexa Fluor 555 (Cat. No. STN-NA115) was greater than 95% as determined by SEC-HPLC.

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## 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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