



## Synonym

Streptavidin,SA

## Source

Streptavidin Protein-Alexa Fluor 488(STN-NA118) 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 under reducing (R) condition (SDS-PAGE).

## Conjugate

AF488

Excitation Wavelength: 488 nm

Emission Wavelength: 517 nm

## Labeling

*The primary amines in the side chains of lysine residues and the N-terminus of the protein are conjugated with AF488 using standard chemical labeling method. The residual AF488 is removed by molecular sieve treatment during purification process.*

## Protein Ratio

The AF488 to protein molar ratio is 1-2.

## Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

## 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

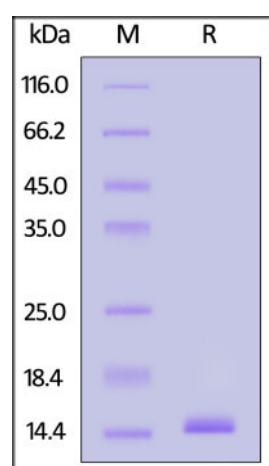
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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

This product is stable after storage at:

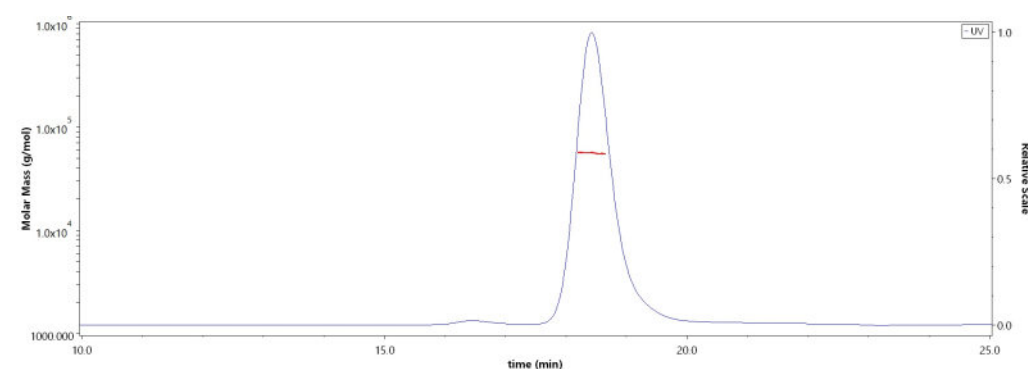
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



Streptavidin Protein-Alexa Fluor 488 on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

## SEC-MALS



The purity of Streptavidin Protein-Alexa Fluor 488 (Cat. No. STN-NA118) is more than 90% and the molecular weight of this protein is around 48-65 kDa verified by SEC-MALS.

[Report](#)

## Background

Discounts, Gifts,  
and more!



## Streptavidin Protein-Alexa Fluor™ 488 (MALS verified)

Catalog # STN-NA118



BIOSYSTEMS  
**Acro**

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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and more!



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