Streptavidin Protein-HRP, Horseradish peroxidase conjugated Streptavidin

Catalog # STN-NH913

Synonym

Streptavidin,SA

Source

Streptavidin is expressed from E. coli cells and conjugated with horseradish peroxidase under optimal conditions.

Molecular Characterization

This protein carries no "tag".

The protein has a calculated MW of 13.8 kDa.

Application

Recommended for use in ELISA (0.1 μg/mL), immunohistochemistry, and western blot applications.
Avoid using biotin-containing solutions as diluents and solutions containing sodium azide. Sodium azide is an inhibitor of horseradish peroxidase. It is recommended that the reagent be titrated for optimal performance for each application.
NOTE: Do not use skim milk as a blocking agent in the assay with streptavidin, since skim milk contains free biotin which will cause high backgrounds.

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

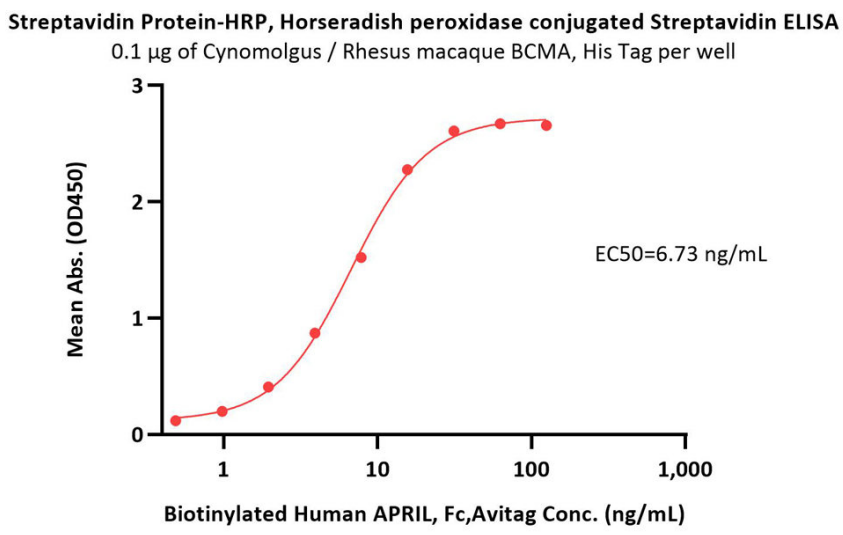
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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

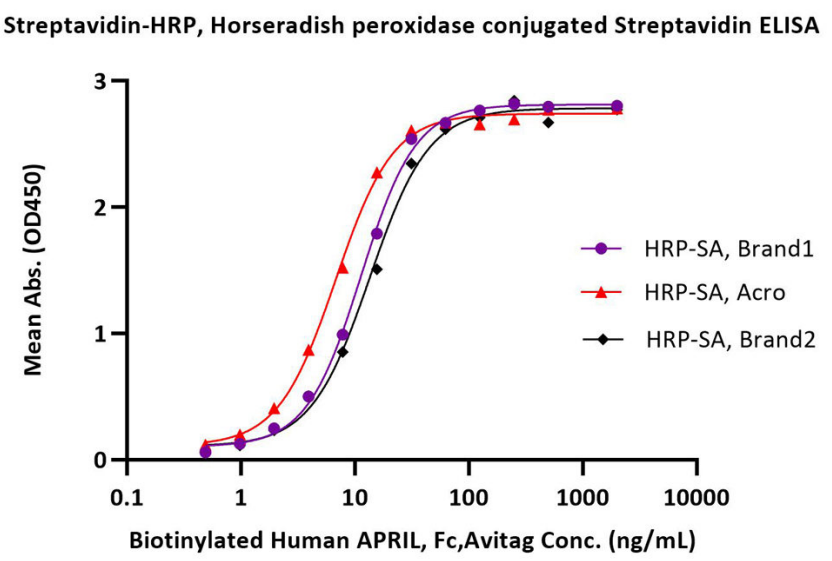
This product is stable after storage at:

- -20°C to -70°C for 2 years in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

Bioactivity-ELISA



Immobilized Cynomolgus / Rhesus macaque BCMA, His Tag (Cat. No. BCA-C52H7) at 1 μg/mL (100 μL/well) can bind Biotinylated Human APRIL, Fc,Avitag (Cat. No. APL-H82F5) with a linear range of 0.5-16 ng/mL when detected by Streptavidin Protein-HRP, Horseradish peroxidase conjugated Streptavidin (0.1 μg/mL) (Cat. No. STN-NH913) (QC tested).



Measure performance comparison between Acro (Streptavidin Protein-HRP, Horseradish peroxidase conjugated Streptavidin) and other competitive products. With tight quality control measures, Acro has better sensitivity than other brands.

Background

Streptavidin Protein-HRP, Horseradish peroxidase conjugated Streptavidin

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Streptavidin is a 66 kDa 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 44 kDa 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 if you have any question on this product.