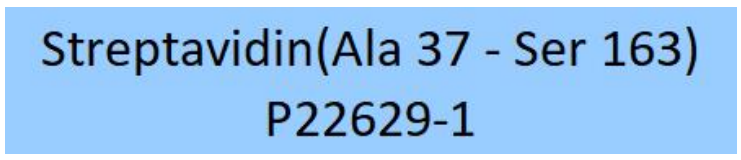
Synonym

Streptavidin,SA

Source

Recombinant Streptavidin Protein(STN-N5113) is expressed from E. coli cells. It contains AA Ala 37 - Ser 163 (Accession # P22629-1).
Predicted N-terminus: Met

Molecular Characterization



This protein carries no "tag".

The protein has a calculated MW of 13.4 kDa. The protein migrates as 11-12 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE).

The protein is designed as a tetramer.

Endotoxin

Less than 0.1 EU per μg by the LAL method / rFC method.

Sterility

Negative

Purity

>90% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 μm filtered solution in 0.02% NaCl, pH7.3.

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

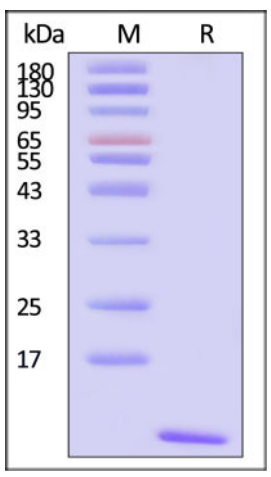
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

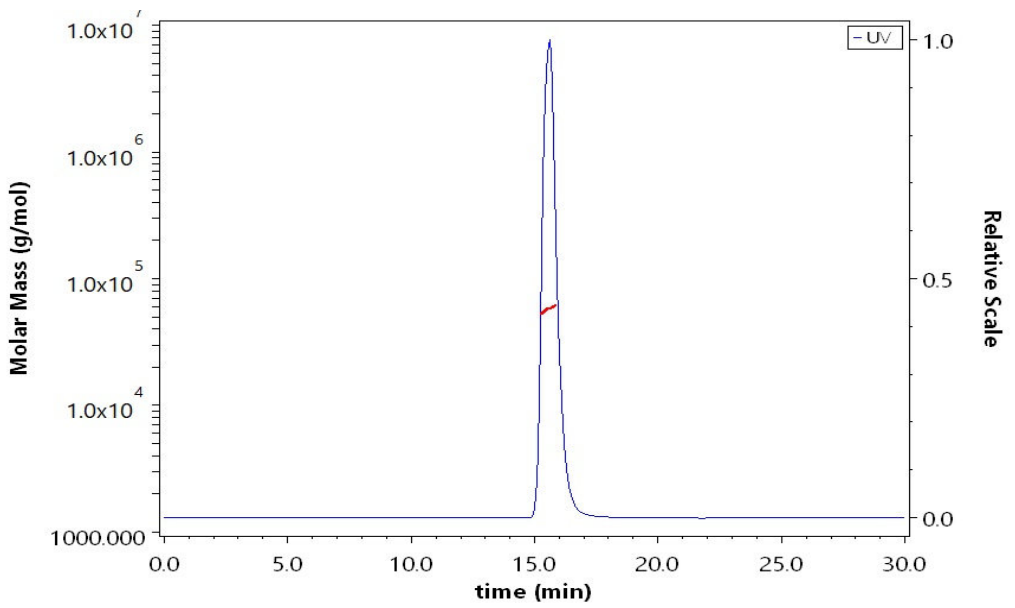
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



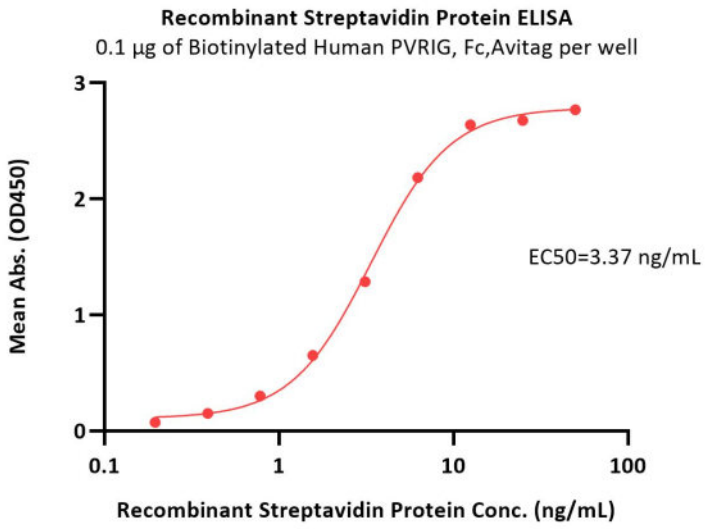
Recombinant Streptavidin Protein on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With Star Ribbon Pre-stained Protein Marker).

SEC-MALS



The purity of Recombinant Streptavidin Protein (Cat. No. STN-N5113) is more than 95% and the molecular weight of this protein is around 45-65 kDa verified by SEC-MALS.
Report

Bioactivity-ELISA



Immobilized Recombinant Streptavidin Protein (Cat. No. STN-N5113) can bind Biotinylated Human PVRIG, Fc,Avitag (Cat. No. PVG-H82F4) at 1 μg/mL (100 μL/well) with a linear range of 0.2-6 ng/mL (QC tested).

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^{3+} 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.