Synonym

Streptavidin,SA

Source

Streptavidin Protein-APC(STN-NA113) is expressed from E. coli cells.
Predicted N-terminus: Met

Molecular Characterization

This protein carries no "tag".

The protein has a calculated MW of 13.8 kDa.

Conjugate

APC

Excitation Wavelength: 640 nm

Emission Wavelength: 661 nm

Endotoxin

Less than 1.0 EU per μg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, 0.03% ProClin300, 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

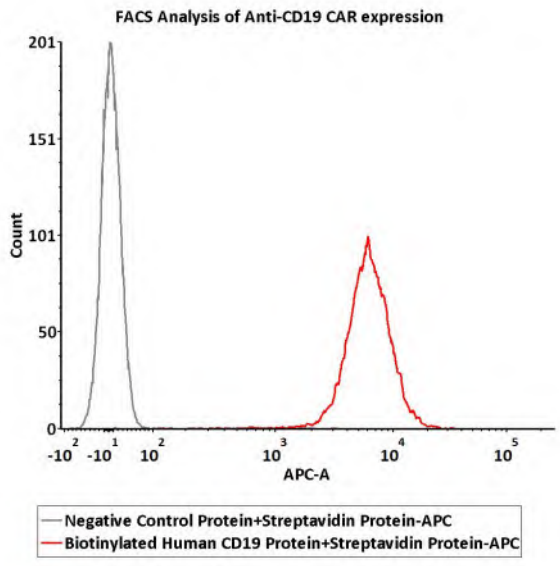
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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

This product is stable after storage at:

- -20°C to -70°C for 24 months in lyophilized state;
- -70°C for 6 months after reconstitution；
- 2-8 °C for 6 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 2.5 μg/mL of Streptavidin Protein-APC (Cat. No. STN-NA113) and analyzed with FACS. APC signal was used to evaluate the binding activity (QC tested).

Background

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