

Streptavidin
Catalog # PVGS1009**Specification**

Streptavidin - Product Information**Purity**

> 95% as analyzed by SDS-PAGE

Biological Activity

>15 U/mg protein, 1 U is defined as the quantity of protein that binds 1 microgramme

Expression System

E. coli

Theoretical Molecular Weight

13,500 Da

Formulation

Lyophilized from a 0.22 µm filtered solution in 10 mM potassium phosphate buffer, pH 6.5-7.0.

Storage & Stability

The powder may be stored at 4°C for several weeks. For long-term storage, store at -20°C.

Streptavidin - Additional Information**Target Background**

Streptavidin is a biotin-binding protein found in the culture broth of the bacterium *Streptomyces avidinii*. Streptavidin can bind to four moles of biotin per mole of protein, and it shows extremely high affinity, approximately 10,000-15,000 Da. Streptavidin lacks the carbohydrate side chains present on avidin and has an isoelectric point of 6.5 to avidin's 10 far closer to that at which most useful biological interactions occur. As a result, Streptavidin frequently exhibits much lower non-specific binding than avidin does.

Streptavidin - Protein Information**Streptavidin - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)

- [Flow Cytometry](#)
- [Cell Culture](#)

Streptavidin - Images