

# Streptavidin

Catalog # PVGS1009

## Product Information

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<b>Purity</b>	> 95% as analyzed by SDS-PAGE
<b>Biological Activity</b>	>15 U/mg protein, 1 U is defined as the quantity of protein that binds 1 microgramme
<b>Expression System</b>	E. coli
<b>Theoretical Molecular Weight</b>	13,500 Da
<b>Formulation</b>	Lyophilized from a 0.22 $\mu$ m filtered solution in 10 mM potassium phosphate buffer, pH 6.5-7.0.
<b>Storage &amp; Stability</b>	The powder may be stored at 4°C for several weeks. For long-term storage, store at -20°C.

## Additional Information

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<b>Target Background</b>	Streptavidin is a biotin-binding protein found in the culture broth of the bacterium <i>Streptomyces avidinii</i> . 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.
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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.