



Native *S. avidinii* Streptavidin (DAG3604)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Native Streptavidin Affinity Purified
Species	<i>S. avidinii</i>
Purity	> 95% by SDS-PAGE (1 band, non-reduced)
Conjugate	Unconjugated
Format	Lyophilized
Preservative	None
Storage	2-8°C short term, -20°C long term

BACKGROUND

Introduction	Streptavidin /ˈstrɪptʰəvɪdɪn/ is a 52.8 kDa protein purified from the bacterium <i>Streptomyces avidinii</i> . Streptavidin homo-tetramers have an extraordinarily high affinity for biotin (also known as vitamin B7 or vitamin H). With a dissociation constant (K_d) on the order of $\approx 10^{-14}$ mol/L, the binding of biotin to streptavidin is one of the strongest non-covalent interactions known in nature. Streptavidin is used extensively in molecular biology and bionanotechnology due to the streptavidin-biotin complex's resistance to organic solvents, denaturants (e.g. guanidinium chloride), detergents (e.g. SDS, Triton), proteolytic enzymes, and extremes of temperature and pH.
Keywords	Streptavidin