



Technical Data Sheet

Recombinant Streptavidin

Streptavidin

Streptavidin is a tetrameric protein composed of identical subunits. Each subunit binds one biotin molecule with a K_D of $\sim 1 \times 10^{-15}$ M. The preparation contains an N- and C-terminal shortened variant (core streptavidin) with improved properties concerning homogeneity, solubility, resistance towards proteolytic degradation and accessibility of the biotin binding pocket as compared to native streptavidin.

Catalog Number:	SE497
Source:	Recombinant streptavidin from <i>Streptomyces avidinii</i> , produced in <i>Escherichia coli</i> .
MW per tetramer:	~53,000.
Quantity:	1.0mg/ 5.0mg
Extinction coefficient per subunit:	$\epsilon_{280} = 41326 \text{ M}^{-1} \text{ cm}^{-1}$
Purity:	> 95 % as estimated by SDS-PAGE
Specific Activity:	> 17 U/mg (one unit binds 1 μg D-biotin at pH 8.9)
Formulation:	Lyophilized in 10 mM potassium phosphate buffer pH 6.5
Proteolytic Activity:	< 10^{-3} U/mg protein (Azocoll, 25 °C, 24 h, pH 8.0)
Reconstitution:	Dissolve with double distilled water
Storage (lyophilized):	-20 °C
Stability (lyophilized):	2 years after shipping
Shipment:	Room temperature
Usage:	This material is offered by Bio Basic Inc for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.