

Recombinant streptavidin

Cat. No. Streptavidin-501 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant streptavidin from <i>Streptomyces avidinii</i> , was produced in <i>Escherichia coli</i> .
Species	<i>Streptomyces avidinii</i>
Source	E.coli
Description	Streptavidin is a tetrameric protein composed of identical subunits. Each subunit binds one biotin molecule with a KD of $\sim 1 \times 10^{-15} \text{M}$. 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.
Form	Lyophilized in 10 mM potassium phosphate buffer pH 6.5
Molecular Mass	$\sim 53,000$ per tetramer.
AA Sequence	MAEAGITGTW YNQLGSTFIV TAGADGALTG TYESAVGNAE SRYVLTGRYD SAPATDGSST ALGWTVAWKN NYRNAHSATT WSGQYVGGAE ARINTQWLLT SGTTEANAWK STLVGHDFTFT KVKPSAAS
Endotoxin	Less than 1EU/ μg of rStreptavidin as determined by LAL method.
Purity	>95% by SDS-PAGE

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Unit Definition	>17 U/mg (one unit binds 1 µg D-biotin at pH 8.9)
Usage	This material is for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.
Stability	2 years after shipping
Storage	-20 centigrade. Avoid repeated freeze/thaw cycles.
Reconstitution	Dissolve with double distilled water
Shipping	Room temperature

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