

## Technical Data Sheet

### Recombinant Streptavidin

<b>Catalog Number:</b>	MPT-SA-100
<b>Description:</b>	Streptavidin binds 4 moles of biotin per mole of protein with a very high affinity. Streptavidin is homotetramer and contains no cysteine residues or carbohydrate side chains. The four subunits consisting of molecular weight of approx. 13 KDa, and each containing a single biotin-binding site. Each subunit has six tyrosine residues.
<b>Source:</b>	Recombinant Streptavidin expressed in <i>Escherichia coli</i> via MPTxpress (Animal free media)
<b>Molecular Weight:</b>	52 KDa
<b>Quantity:</b>	Custom Size
<b>Purity:</b>	95% by SDS-PAGE
<b>Formulation:</b>	Lyophilized salt free.
<b>Biological Activity:</b>	Binds biotin, specific activity $\geq 15$ U/mg with a high affinity ( $K_d \sim 10^{-15}$ ). pH stability 5.0-9.0.
<b>Applications:</b>	MicroProtein's high quality recombinant Streptavidin is a suitable tool for allowing universal test systems in molecular diagnostics, reagents, kits and immunology. This recombinant Streptavidin is appropriate for coating solid phases such as microarrays, beads and microplates etc.
<b>Reconstitution:</b>	Dissolve in deionized water/buffer, reconstitution should be performed for at least 30 min. <b><u>To remove eventually occurring turbidities the solution should be centrifuged briefly prior to use. The concentration of streptavidin should not exceed 10mg/ml.</u></b>
<b>Storage:</b>	2 years at -20°C. After reconstitution, aliquot and store at -20°C. Avoid repeated freeze/thaw cycles. Shipping temperature may differ from storage temperature. This does not alter the performance of the product.
<b>Usage:</b>	This material is offered by MicroProtein Technologies, Inc. for research, laboratory use, further evaluation purposes or for bio-processing use/other related use.
<b>Country Of Origin:</b>	<b>Made in U.S.A</b>