

## 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 a homotetramer and contains no cysteine residues or carbohydrate side chains. The four subunits consist 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>	50 mg/100mg/1gram
<b>Purity:</b>	SDS-PAGE analysis Passed (specification, primarily single band)
<b>Formulation:</b>	Lyophilized contains ~0.9mg protein/mg lyophilizate the balance is sodium chloride
<b>Biological Activity:</b>	Binds biotin, specific activity $\geq 17$ U/mg streptavidin with a high affinity at pH 8.9
<b>Applications:</b>	MicroProtein's high quality recombinant Streptavidin is a suitable tool for allowing universal test systems in molecular diagnostics, reagents, kits, micro-arrays, beads, and microplates etc. and immunology.
<b>Reconstitution:</b>	Dissolve the lyophilizate in 1 ml deionized water/salt containing buffer (PBS pH 7.6) in a concentration of 10mg streptavidin/ml. The reconstituted solution is stable for 1 week at +2 to +6 °C. If eventually occurring turbidities/undissolved material is observed, it can be removed by centrifugation and does not constitute a significant fraction of total protein. The concentration of streptavidin can exceed 10mg/ml in salt containing buffer.
<b>Storage:</b>	2 years at -20°C. 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>

