

Technical Data Sheet

Recombinant Streptavidin

Catalog Number:	MPT-SA-100
Description:	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.
Source:	Recombinant Streptavidin expressed in <i>Escherichia coli</i> via MPTxpress (Animal free media)
Molecular Weight:	52 KDa
Quantity:	50 mg/100mg/1gram
Purity:	SDS-PAGE analysis Passed (specification, primarily single band)
Formulation:	Lyophilized contains ~0.9mg protein/mg lyophilizate the balance is sodium chloride
Biological Activity:	Binds biotin, specific activity ≥ 17 U/mg streptavidin with a high affinity at pH 8.9
Applications:	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.
Reconstitution:	Dissolve the lyophilizate in 1 ml deionized water/salt containing buffer (TBS pH 7.6) in a concentration of 1-5mg 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 should not exceed 10mg/ml.
Storage:	2 years at -20°C. Shipping temperature may differ from storage temperature. This does not alter the performance of the product.
Usage:	This material is offered by MicroProtein Technologies, Inc. for research, laboratory use, further evaluation purposes or for bio-processing use/other related use.
Country Of Origin:	Made in U.S.A

