

Streptavidin Active Protein

Streptavidin (*Streptomyces avidinii*)

CATALOG #
AAA14741

PRODUCT SYNONYMS

Streptavidin; Streptavidin (*Streptomyces avidinii*); Streptavidin active protein

PRODUCT SPECIFICATIONS

Purity/Purification	Molecular Biology Grade Single band (SDS-PAGE)
Form/Format	Supplied as a lyophilized powder in sodium chloride.
Application Notes	Suitable for use in Enzyme conjugates and complexes, Southern Blots, DNA and RNA analysis, Western Blots and Protein Purification. Other applications not tested.
Source	<i>Streptomyces avidinii</i> , MW:55kD (4 similar polypeptide chains)
CAS Number	9013-20-1
Specific Activity	15.0u/mg Protein (HABA) 19.9u/mg Protein (biotin titration)
Extinction Coefficient[1%, 280 nm]	32
Protein Content	~0.9mg protein/mg lyophilizate
Dissociation Constant for Biotin	~10e-15M
Reconstitution	Reconstitute in sterile ddH ₂ O or 1mM sodium bicarbonate buffer, pH 9, at twice the desired final protein concentration. The protein may then be diluted with an equal volume of 2X buffer to produce a stock solution. Upon standing some turbidity may develop in certain buffers. Centrifugation will usually yield a clear solution with negligible loss of streptavidin.
Preparation and Storage	Lyophilized powder may be stored at -20°C. Stable for 12 months at -20°C. Reconstitute with sterile buffer or ddH ₂ O. Aliquot to avoid repeated freezing and thawing. Store at -20°C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.

ADDITIONAL INFORMATION

Related Product Information for Streptavidin active protein	Streptavidin is a biotin-binding protein which binds 4 moles of biotin per mole of protein under high affinity ($K_d \sim 10^{-15}$). Due to the lack of carbonate side chains present on avidin and a neutral isoelectric point, streptavidin maintains less non-specific binding than avidin.
Product Categories/Family for Streptavidin active protein	Molecular Biology; MB-Proteins

NCBI AND UNIPROT INFORMATION

NCBI GI #	21340185
Molecular Weight	55kD
NCBI Official Full Name	streptavidin

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/active-protein/streptavidin/14741>