

STREPTAVIDIN - S000-01
Code: S000-01

Size: 5 mg

Product Description: STREPTAVIDIN - S000-01

Concentration: 0.9 mg/mg streptavidin/lyophilizate (balance is sodium chloride).

PhysicalState: Lyophilized

Label	Unconjugated
Buffer	0.15 M Sodium Chloride
Reconstitution Volume	5.0 mL
Reconstitution Buffer	Restore with deionized water (or equivalent)
Stabilizer	None
Preservative	None
Storage Condition	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. Streptavidin is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Synonyms	SA, S avidin, streptococcus avidin
Application Note	Streptavidin is suitable for use as antigen, as a control or standard in assays, and most other immunological methods as well as enzyme conjugates and complexes; Southern blots and other methodologies related to DNA and RNA analysis; Western blots; and purification of proteins or other antigens with biotinylated antibodies or lectins by use of immobilized streptavidin.
Background	Streptavidin is a bacterial protein (from <i>Streptomyces avidinii</i>) that has an exceptionally high binding affinity for biotin (B7). Streptavidin-biotin binding is one of the strongest known non-covalent interactions and is highly resistant to many conditions that would typically cause dissociation (such as organic solvents, denaturants, detergents, and extreme temperatures or pH). Streptavidin's affinity for biotin can be employed in a variety of experimental uses, from purifications to standards, to means of detection or pull down experiments.
Purity And Specificity	Streptavidin is chromatographically pure and shows predominantly a single 53,600 dalton band by SDS-PAGE.
ELISA	1:20,000-1:200,000
Gel Shift Dilution	User Optimized
Western Blot	1:2000-1:20,000
ChIP	User Optimized
Expiration	Expiration date is one (1) year from date of opening.
General Reference	Agaraña, C. E., Kuntz, I. D., Birken, S., Axel, R. and C. R. Cantor. Molecular cloning and nucleotide sequence of the streptavidin gene. <i>Nucleic Acids Res.</i> 14: 1871-1882 (1986).

Related Products

B000-03	BIOTIN PEROXIDASE Conjugated - B000-03
MB-070	Blocking Buffer for Fluorescent Western Blotting - MB-070
S000-03	STREPTAVIDIN PEROXIDASE Conjugated - S000-03
TMBE-1000	TMB ELISA PEROXIDASE SUBSTRATE - TMBE-1000

Related Links
[Streptavidin Properties and Characterization](#)

<http://www.rockland-inc.com/uploadedFiles/Support/Streptavidin%20-%20S000-01.pdf>

NCBI - CAA00084.1

<http://www.ncbi.nlm.nih.gov/protein/CAA00084.1>

UniProtKB - P22629

Images

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SDS-Page of Streptavidin. Lane 1: Molecular weight markers. Lane 2: Streptavidin. Load: 1.0 ug per lane. Predicted/Observed size: The molecular weight of streptavidin is 55,000 daltons. The protein is composed of 4 essentially identical polypeptide chains (homotetramer). This product is chromatographically pure Streptavidin and shows predominantly a single 13.800 dalton band by SDS-PAGE.



Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.