

Rhodamine Labeled Streptavidin

Catalog No. Size
073-30-00 **1.0 mg**



DESCRIPTION

Streptavidin is a 60,000 dalton protein isolated from the bacterium *Streptomyces avidinii*. The use of streptavidin rather than egg white avidin as the bridging reagent ensures that these products demonstrate sensitivity, high specificity and low background. Electrophoretically pure streptavidin is labeled with tetramethyl rhodamine isothiocyanate (TRITC) using a modified proprietary method adapted from Titus, et. al.⁽¹⁾.

period of time may result in performance loss. Avoid multiple freeze-thaw cycles.

FORM/STORAGE

Lyophilized. Store at 2 – 8°C until rehydrated. Stable for a minimum of 1 year at 2 - 8°C in the lyophilized state.

STABILIZER AND PRESERVATIVE

Bovine serum albumin added as a stabilizer. 0.01% (w/v) Sodium azide added as a preservative. Non-sterile.

FLUOROCHROME:PROTEIN RATIO

Fluorochrome:streptavidin ratio \cong 2 - 4:1

CONCENTRATION

The concentration is 1.0mg/mL as determined by UV absorbance at 280nm.

SPECIFICITY/CROSS REACTIVITY

A single precipitin arc was observed against anti-streptavidin when assayed by immunoelectrophoresis. No reaction was observed against anti-Avidin.

REHYDRATION AND STORAGE

Two methods for rehydration and storage are recommended to accommodate most needs. Procedure A using 50% glycerol is preferred for extended storage. At a working dilution, the concentration of glycerol is negligible and will not affect most assays. The use of glycerol is not recommended when the conjugate is used in live cell work. Storage at the working dilution for a prolonged

Procedure A: Mix 1 mL glycerol with 1 mL reagent quality water. **Rehydration:** Transfer 1 mL of this 50% glycerol solution to the product vial. Slowly rotate the vial until the lyophilized pellet is totally dissolved. Dilute to desired concentration with PBS or other buffer such as BSA Diluent/Blocking Solution prior to use. **Storage:** This product may be stored for up to 1 week at 2 - 8°C; thereafter, it should be stored at -20°C. When stored at -20°C, product is stable for a minimum of 1 year.

Procedure B: Rehydration: Rehydrate with 1 mL reagent quality water. Dilute to desired concentration with PBS or other buffer such as BSA Diluent/Blocking Solution. **Storage:** This product may be stored for up to 1 week at 2 - 8°C; thereafter, it should be stored at -20°C. When stored at -20°C, product is stable for a minimum of 1 year.

APPLICATIONS

Rhodamine labeled affinity purified antibodies are recommended for most types of fluorescent antibody staining procedures; also suitable for immunomicroscopy, flow cytometry and FACS analysis. The excitation wavelength is 550nm; the emission wavelength is 570nm. The absence of rhodamine labeled serum contaminants markedly reduces background signal.

SUGGESTED WORKING DILUTIONS

Different assay conditions require that serial dilutions of all reagents be performed to determine optimal working concentrations. Prepare working dilution in PBS or other buffer such as BSA Diluent/Blocking Solution immediately before use. Storage at a working dilution may result in conjugate inactivation and performance loss.

Suggested starting dilutions based on a 1.0 mg/mL stock solution are as follows:

Histo/Cytochemical Procedures:

1:200-1:500 (5.0 µg/mL - 2.0 µg/mL)

Flow Cytometry:

1:50-1:200 (20.0 µg/mL - 5.0 µg/mL)

PRODUCT SAFETY AND HANDLING

This product is considered non-hazardous as defined by The Hazard Communication Standard (29 CFR 1910.1200). Avoid contact with skin and eyes. In case of contact or spillage, clean with copious amounts of water. Product may be disposed via a sanitary sewer.

REFERENCES

1. Titus, J.A., et al. *J. Immun. Meth.*, 50:193-204, 1982.

ORIGIN OF ANTISERA

United States

RELATED PRODUCTS

BSA Diluent/Blocking Solution Concentrate	Cat. No. 50-61-00
Fluorescent Mounting Media	Cat. No. 71-00-16
Phosphatase -Labeled Streptavidin	Cat. No.15-30-00
Peroxidase-Labeled Streptavidin	Cat. No. 14-30-00
Fluorescein-Labeled Streptavidin	Cat . No. 072-30-00
Phycoerythrin-Labeled Streptavidin	Cat. No. 0718-30-00
AMCA-Labeled Streptavidin	Cat. No.0711-30-00
Texas Red™-Labeled Streptavidin	Cat. No.0717-30-00
Cy™ 2-Labeled Streptavidin	Cat. No.077-30-00
Cy™ 3-Labeled Streptavidin	Cat. No.078-30-00
Cy™ 5-Labeled Streptavidin	Cat. No.079-30-00

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