

KPL Phosphatase-Labeled Streptavidin

Catalog No.
5270-0030 (15-30-00)

Size
0.5 mg

DESCRIPTION

Streptavidin is a 60,000 Dalton protein isolated from the bacterium *Streptomyces avidinii* and binds four molecules of biotin with high affinity ($K_d = 10^{-15}$ M). Streptavidin is covalently linked with phosphatase using a modified Glutaraldehyde procedure¹.

FORM/STORAGE

Lyophilized. Store at 2-8°C until rehydrated. Stable for a minimum of 1 year when stored at 2-8°C.

STABILIZER AND PRESERVATIVE

Stabilization diluent added as protein stabilizer.
No preservatives added. Non-sterile.

E/P RATIO

Molar enzyme to Streptavidin protein ratio = 1.34:1

REHYDRATION AND STORAGE

Two methods of rehydration and storage are recommended to meet most needs. Procedure A using 50% glycerol is preferred. It eliminates freezing at -20°C and 50% glycerol is an effective biological inhibitor when the product is stored at 2-8°C. At a working dilution, the level of glycerol is too small to affect most assays.

Procedure A

Solution Preparation: 50% Glycerol. Mix 1 mL of Glycerol with 1 mL of reagent quality water in a test tube.

Rehydration: Transfer 1 mL of this 50% glycerol solution to the product vial. Rotate the vial until the lyophilized pellet is totally dissolved. Dilute to desired concentration with PBS or other buffer.

Storage: This product may be stored either refrigerated or frozen as desired. Product is stable for a minimum of 1 year.

Procedure B

Rehydration: Rehydrate with 1 mL of reagent quality water. Dilute to desired concentration with PBS or other buffer.

Storage: This product may be stored for up to one week refrigerated; thereafter, it should be stored frozen. When frozen, product is stable for a minimum of one year.

Note: Variations in temperature due to freeze cycles may cause loss of activity when rehydrated product is stored frozen in aliquots less than 50 µL.

SUGGESTED WORKING DILUTIONS

Different assay conditions require that serial dilutions of all reagents be performed to determine optimal working concentrations. Prepare the working dilution immediately before use. Storage at a working dilution may result in enzyme inactivation and performance loss.

Suggested starting dilutions:

Microwell Plate Immunoassays:	1/1000 (0.5 µg/mL)
Membrane Immunoassays:	1/1000 (0.5 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. Voller, A., et al. A Manual of Clinical Immunology, American Society for Microbiology 1976.

RELATED PRODUCTS

RELATED PRODUCTS	CAT. NO.
KPL pNPP AP Substrate Kit	5120-0056 (50-80-00)
KPL BCIP/NBT AP Substrate Kit	5420-0030 (50-81-00)
KPL BCIP/NBT 1-Component AP Substrate Kit	5420-0033 (50-81-07)

The product listed herein is for research use only and is not intended for use in human or clinical diagnosis.