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Datasheet for ABIN7567110 PolyStreptavidin Protein

Image



Overview

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Quantity:	3 mg
Target:	PolyStreptavidin
Origin:	Streptomyces avidinii
Source:	Streptomyces avidinii
Protein Type:	Native
Application:	Functional Studies (Func), Lateral Flow (LF)

Product Details

Purpose:	Polymerized Streptavidin
Characteristics:	Polystreptavidin is a chemically modified, polymerized form of Streptavidin distinguished by its
	exceptionally high biotin-binding capacity. When applied as a coating on solid surfaces,
	Polystreptavidin provides a versatile platform for immobilizing and detecting a wide range of
	biotinylated molecules—including proteins, peptides, PCR fragments, haptens, and more.
	These coatings combine outstanding binding efficiency with excellent chemical and thermal
	stability, along with an extended shelf life. Polystreptavidin is ideal for use on various substrates
	such as membranes, beads, biochips, and plastic materials, offering a robust and reliable
	solution for diverse analytical and diagnostic applications.
Purification:	Dialysis
Torgot Dotoilo	
Target:	PolyStreptavidin

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Target Details

Background:

Streptavidin is a tetrameric protein, composed of four subunits of approximately 13 kDa each, that exhibits an exceptionally strong affinity for the small molecule biotin. This interaction ranks among the most robust non-covalent bonds in biology and remains stable under extreme conditions such as high temperatures, varying pH levels, and exposure to solvents or other chemicals. Biotin can effectively outcompete most other ligands for streptavidin binding and can be easily linked to a variety of biomolecules, making this system highly versatile and widely used—especially in immunoassay applications.

A single streptavidin molecule is capable of binding up to four biotin or biotinylated proteins. However, the use of Polystreptavidin allows for the attachment of significantly more biotin molecules per complex. This enhanced binding capacity can lead to lower background noise, improved signal strength and specificity, and reduced reagent costs during the development and optimization of immunoassays.

Application Details

Application Notes:	Lateral Flow Assay (LFA): 2 mg/mL in PBS
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	5 mg/mL
Buffer:	5 mM PBS, 0.09% Sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	2 to 8 °C. Do not freeze!

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Streptavidin vs.Polymerized Streptavidin in LFA Format





Western Blotting

Image 1. Streptavidin vs Polymerized Streptavidin Test Lines striped onto nitrocellulose membrane at 2 mg/mL in PBS and compared using identical assay conditions. Note the more diffuse, less intense test lines from streptavidin vs. the narrow, intense test line from Polymerized Streptavidin. Lowest analyte condition (Right most strip in each set) does not have visible test line from Streptavidin, but has a visible test line from Polymerized Streptavidin.

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