



Streptavidin - Alkaline Phosphatase

Applicable to:

2011-0100 (100µg)
2011-1000 (1mg)

Release 2

16/02/2016

Product Details

Specificity	Biotin
Host species	<i>E. coli</i> and Bovine
Format	Lyophilized
Buffer	Phosphate buffer
Preservatives	None
Shipping	Ambient temperature
Storage	-20°C
Shelf life	2 years

Our streptavidin conjugates are produced using our Lightning-Link® bioconjugation technology, therefore providing high quality, stable covalent conjugates for use in your application.

Background Information

Streptavidin is purified from the bacterium *Streptomyces avidinii*. It is a tetrameric protein that is composed of identical subunits, with the tetramer having a molecular weight of approximately 53kDa. Each subunit binds one biotin molecule with a very high degree of specificity and affinity. The K_d for this interaction is in the region of $10^{-15}M$.

Alkaline Phosphatase is a hydrolase enzyme. It is extracted from bovine intestine and purified using multiple precipitation, fractionation, chromatography, and filtration steps. Alkaline Phosphatase is frequently employed in immunoassays, and a commonly used

colorimetric substrate for it is PNPP; the product of this reaction, p-nitrophenol, can be read at 405nm. Fluorogenic substrates such as 4-methylumbelliferyl phosphate (MUP) may also be used.

Shipping conditions

The product is shipped at ambient temperature. Store the product at -20°C upon receipt.

Potential Applications

Including, but not limited to:

- ELISA
- Immunoblotting
- Immunohistochemistry

Store the product at -20°C upon receipt.

Related Products

Our Lightning-Link® Biotin conjugation kits allow you directly conjugate your primary antibody to biotin in under 20 minutes with only 30 seconds hands-on time:

<https://www.innovabiosciences.com/antibody-labeling-kits/biotin-streptavidin/lightning-link-biotin.html>

For technical enquiries get in touch with our technical support team at:

technical.enquiries@innovabiosciences.com

For further information see our website:

www.innovabiosciences.com

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