

Streptavidin-NC

Description: Recombinant Streptavidin-NC produced in E.Coli is a single, non-glycosylated, polypeptide chain having a molecular mass of 24kDa. Recombinant Streptavidin-NC not only binds to nitrocellulose membrane readily but also preserves the full biotin binding ability.

Catalog #: PRPS-345

Source: Escherichia Coli.

For research use only.

Physical Appearance: Sterile Liquid formulation at the concentration.

Purity: Greater than 96.0% as determined by SDS-PAGE.

Formulation:

The sterile solution contains 10mM K₂HPO₄-KH₂PO₄, pH 7.3.

Stability:

Streptavidin-NC although stable at 4°C for 3 weeks, should be stored below -18°C. Please prevent freeze thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Applications:

Calibrators and controls for immunoassays and western blot standards.

Introduction:

Streptavidin is a tetrameric protein secreted by Streptomyces avidinii which binds firmly to biotin. Streptavidin is widely used in molecular biology through its unique high affinity for the vitamin biotin. The dissociation constant (K_d) of the biotin-streptavidin complex is about ~10⁻¹⁵ mol/L. The strong affinity recognition of biotin and biotinylated molecules has made streptavidin one of the most important components in diagnostics and laboratory kits. The streptavidin/biotin system has one of the biggest free energies of association of yet observed for noncovalent binding of a protein and small ligand in aqueous solution (K_{assoc} = 10¹⁴). The complexes are also extremely stable over a wide range of temperature and pH.

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