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Product Datasheet

Product Name Streptavidin-NC Recombinant

Cata No CB500959

Source Escherichia Coli.

Synonyms

Description

Streptavidin is a tetrameric protein secreted by Streptomyces avidinii which binds firmly to biotin. Streptavidin is wilyde used in molecular biology through its unique high affinity for the vitamin biotin. The dissociation constant (Kd) 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 = 10**14). The complexes are also extremely stable over a wide range of temperature and pH.

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.

Physical Appearance

Sterile Liquid formulation at the concentration.

Purity

Greater than 90.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

Formulation

The sterile solution contains 50% glycerol.

Stability

Streptavidin-NC although stable at 4° C for 3 weeks, should be stored below -18°C.

Please prevent freeze thaw cycles.

Applications

Calibrators and controls for immunoassays and western blot standards.