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Streptavidin-NC

Streptavidin-NC Recombinant
RCP2277

Product Overview

Name	Streptavidin-NC

Description

Streptavidin-NC Recombinant

Introduction

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.

Source

Escherichia Coli.

Physical Appearance

Sterile Liquid formulation.

Formulation

The sterile solution contains 10mM K 2 HPO 4 -KH 2 PO 4 , 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.

Purity

Greater than 93.0% as determined by SDS-PAGE.

Precautions

Streptavidin-NC is for research use only and not for use in diagnostic or therapeutic procedures.