
Product Data Sheet

Product Name: Streptavidin-NC
Cat. No.: GP24733
Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Formulation	The sterile solution contains 10mM K ₂ HPO ₄ -KH ₂ PO ₄ , pH 7.3.		

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.

Stability

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

Background

Recombinant Streptavidin-NC produced in E.Coli is a single, non-glycosylated, polypeptide chain having a molecular mass of 24kDa. Streptavidin-NC is engineered to bind to nitrocellulose.

Caution: Product has not been fully validated for medical applications. For research use only.

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