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Recombinant Streptavidin-NC

CLPRO338
CLPRO338-2
CLPRO338-3

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.

Description: Recombinant Streptavidin-NC produced in *E. Coli* is a single, non-glycosylated, polypeptide chain having a molecular mass of 24kDa.

Source: *Escherichia Coli*.

Presentation: 20µg (CLPRO338), 100 µg (CLPRO338-2) or 1 mg (CLPRO338-2) sterile liquid formulation. The sterile solution contains 10mM K₂HPO₄-KH₂PO₄, PH 7.3.

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

Purity: Greater than 94.0% as determined by SDS-PAGE.

FOR RESEARCH USE ONLY

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