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Recombinant Streptavidin

CLPRO791
CLPRO791-2
CLPRO791-3

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: Streptavidin *Streptomyces Avidinii* Recombinant produced in E.Coli. The molecular weight per tetramer is approximately 53kDa. Extinction coefficient per subunit: 41326 M⁻¹ cm⁻¹.

Source: *Escherichia Coli*.

Presentation: 5 mg (CLPRO791), 20 mg (CLPRO791-2), or 1 g (CLPRO791-3), sterile filtered white lyophilized (freeze-dried) powder. Lyophilized in 10mM potassium phosphate buffer pH 6.5.

Solubility: It is recommended to reconstitute the lyophilized Streptavidin in sterile 18M-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Streptavidin is shipped at ambient temperature, upon arrival store at -20°C.

Purity: Greater than 98% as determined by SDS-PAGE.

Specific Activity: > 17U/mg (one unit binds 1 µg D-biotin at pH 8.9).

Proteolytic Activity: < 10⁻³ U/mg protein (Azocoll, 25°C, 24 h, pH 8.0).

Amino Acid Sequence:

MAEAGITGTWYNQLGSTFIVTAGADGALTGTYESAVGNAESRYVLT
GRYDSAPATDGSALTGWTVAWKNNYRNAHSATTWSGQYVGGA
EARINTQWLLTSGTTEANAWKSTLVGHDTFTKVKPSAAS

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