

Streptavidin

Description: Streptavidin Streptomyces Avidinii Recombinant produced in E.Coli. The molecular weight per tetramer is approximately 52kDa. Extinction coefficient per subunit: 41326 M⁻¹ cm⁻¹.

Catalog #: PRPS-798

Source: Escherichia Coli.

For research use only.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence:

MAEAGITGTWYNQLGSTFIVTAGADGALTGTYESAVGNAESRYVLTGRYDSAPATDGSGTALGW
TVAWKNNYRNAHSATTWSGQYVGGAEARINTQWLLTSGTTEANAWKSTLVGHDTFTKVKPSAA
S.

Purity: Greater than 98.0% as determined by SDS-PAGE and HPLC.

Formulation:

Lyophilized in 10mM potassium phosphate buffer pH 6.5.

Stability:

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

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

It is recommended to reconstitute the lyophilized Streptavidin in sterile 18M-cm H₂O not less than 100

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.

To place an order, please [Click HERE](#).