Streptavidin, 25-183 aa

*Streptomyces avidinii*, His-tagged, Recombinant, *E.coli*

Cat. No.STV0801

NCBI Accession No.: CAA27265

**Description:** Streptavidin, a tetrameric protein secreted by *Streptomyces avidinii*, binds tightly to a small growth factor biotin. It finds wide use in molecular biology through its extraordinarily strong affinity for the vitamin biotin; the dissociation constant (Kₐ) of the biotin-streptavidin complex is on the order of ~10⁻¹⁵ mol/L. The high affinity recognition of biotin and biotinylated molecules has made streptavidin one of the most important components in diagnostics and laboratory kits. Recombinant His tagged streptavidin was expressed in *E.coli* and purified by using conventional chromatography techniques.

**Form:** Liquid. In 20 mM Tris-HCl buffer (pH 7.5)

**Molecular Weight:** 17 kDa (167 aa), confirmed by MALDI-TOF

**Purity:** > 95% by SDS - PAGE

**Concentration:** 1 mg/ml (determined by BCA assay)

**Sequences of amino acids:**

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MVHDDHP SKDSKAQVSA AEAGITGTWY NOLGSTFIVT AGADGALTGT YESAVGQAES RYVTGQRYS APATDGSGTA LGWTVANKNN YRNAHSATTW SGQYVGAETV IINTWILLTS GTTEANAWKS TLVHDFTFTK VKPSAAS1DA AKKAGVNNN PNDAVQQ
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**General references:**


**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.