

**His-Streptavidin, 25-183aa, Streptomyces avidinii, His tagged, Recombinant, E.coli**

**Cat.NO.: TP02456**

3th Edition

**Synonyms:**

**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 (Kd) 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.

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

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

**Sequences:**

MVHHHHHHHDPSKDSKAQVSAAEAGITGTWYNQLGSTFIVTAGADGALTGTYESAVGNAESRYVLTGRYDSAPATD  
GSGTALGWTVAWKNNYRNAHSATTWSGQYVGGAEARINTQWLLTSGTTEANAWKSTLVGHDTFTKVKPSAASID  
AAKAGVNNGNPLDAVQQ

**Purity:** > 95% by HPLC

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

**Endotoxin Level:** <1.0 EU per 1 ug of protein (determined by LAL method)

**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.