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# Recombinant streptomyces Streptavidin protein

Catalog Number: ATGP2140

#### PRODUCT INFORMATION

### **Expression system**

E.coli

#### **Domain**

37-159aa

#### UniProt No.

P22629

#### **NCBI Accession No.**

CAA27265

#### **Alternative Names**

Streptavidin, STAV

# **PRODUCT SPECIFICATION**

### **Molecular Weight**

15.6 kDa (148aa) confirmed by MALDI-TOF

#### Concentration

0.25mg/ml (determined by BCA assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol

#### **Purity**

> 90% by SDS-PAGE

#### Tag

His-Tag

## **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **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  $\sim 10$ -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 Streptomyces streptavidin protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.



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# **Amino acid Sequence**

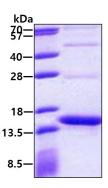
<MGSSHHHHHH SSGLVPRGSH MGSHM>AEAGI TGTWYNQLGS TFIVTAGADG ALTGTYESAV GNAESRYVLT GRYDSAPATD GSGTALGWTV AWKNNYRNAH SATTWSGQYV GGAEARINTQ WLLTSGTTEA NAWKSTLVGH DTFTKVKP

#### **General References**

Alon R., et al. (1990) Biochem. Biophys. Res. Commun. 170:1236-1241 Freitag S., et al. (1997) Protein Sci. 6:1157-1166

# **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

