

# Recombinant streptomyces Streptavidin protein

Catalog Number: ATGP2140

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

37-159aa

### UniProt No.

P22629

### NCBI Accession No.

CAA27265

### Alternative Names

Streptavidin, STAV

## PRODUCT SPECIFICATION

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### 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

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### 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. 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

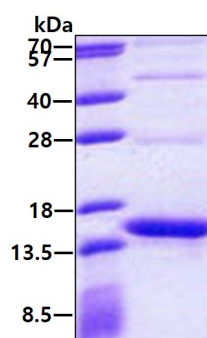
Alon R., et al. (1990) Biochem. Biophys. Res. Commun. 170:1236-1241

Freitag S., et al. (1997) Protein Sci. 6:1157-1166

## DATA

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### SDS-PAGE



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