

## Recombinant Streptomyces avidinii Streptavidin Protein

Catalog Number: IBSTV0801

### PRODUCT INFORMATION

#### Expression System

E.coli

#### Domain

25-183aa

#### UniProt No.

P22629

#### NCBI Accession No.

CAA27265

#### Alternative Names

Streptavidin, Streptomyces avidinii streptavidin, SA V1, SA V2, Streptavidin V1, Streptavidin V2.

### PRODUCT SPECIFICATION

#### Molecular Weight

17 kDa (167 aa), confirmed by MALDI-TOF.

#### Concentration

1 mg/ml (determined by BCA assay)

#### Formulation

Liquid in 20mM Tris pH 7.5

#### Purity

> 95% by SDS - PAGE

#### Tag

His-Tag

#### Applications

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 ~10<sup>-15</sup> 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.

#### Amino acid Sequence

MVHHHHHHDP SKDSKAQVSA AEAGITGTWY NQLGSTFIVT AGADGALTGT YESAVGNAES

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**



Manufactured for:

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# Product information



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RYVLTGRYDS APATDGSGTA LGWTVAWKNN YRNAHSATTW SGQYVGGAEA RINTQWLLTS  
GTTEANAWKS TLVGHDTFTK VKPSAASIDA AKKAGVNNGN PLDAVQQ

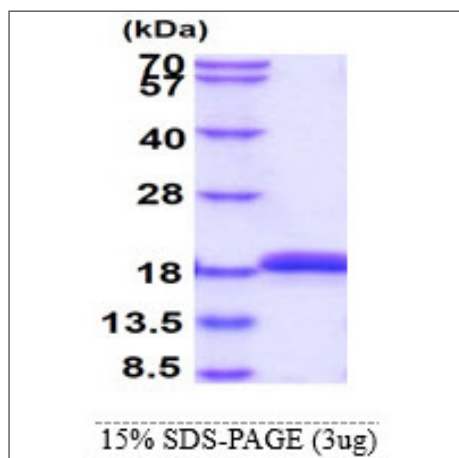
### General References

Howarth M., et al. (2006) Nat Methods. 3(4):267-73.

Holmberg A., et al (2005). Electrophoresis. 26(3):501-10.

## DATA

### SDS-PAGE



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

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