

Recombinant streptomyces avidinii Streptavidin protein

Catalog Number: STV0801

PRODUCT INFORMATION

Expression system

E.coli

Domain

25-183aa

UniProt No.

P22629

NCBI Accession No.

CAA27265.1

Alternative Names

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

PRODUCT SPECIFICATION

Molecular Weight

17.5 kDa (167aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 7.5)

Purity

> 95% 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 ~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.

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Amino acid Sequence

<MVHHHHHH>DP SKDSKAQVSA AEAGITGTWY NQLGSTFIVT AGADGALTGT YESAVGNAES RYVLTGRYDS
APATDGSGTA LGWTVAWKNN YRNAHSATTW SGQYVGGAEA RINTQWLLTS GTTEANAWKS TLVGHDTFTK
VKPSAASIDA AKKAGVNNGN PLDAVQQ

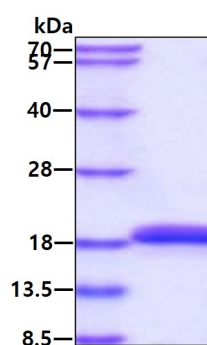
General References

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.