

Product Information

Recombinant streptomyces Streptavidin protein

Catalog Number: IBATGP2140



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 (K_d) 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.

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



Manufactured for:

Immuno-Biological Laboratories, Inc. (IBL-America)

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Amino acid Sequence

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

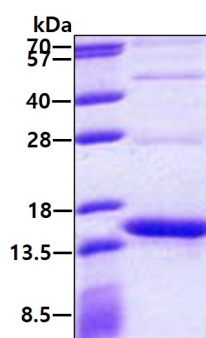
General References

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.

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