

Recombinant Streptomyces avidinii SA Protein

Cat. No. SA-05S Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant tag-free Streptavidin (aa 25-183) from Streptomyces avidinii was expressed in E. coli.
Species	Streptomyces Avidinii
Source	E.coli
ProteinLength	25-183
Description	Streptavidin (SA) is a tetrameric protein originating from the bacterium Streptomyces avidinii. Each subunit of the streptavidin tetramer can associate with one biotin small vitamin molecule. Although the SA-biotin interaction is non-covalent, it has an extremely high affinity ($K_d \sim 10^{-14}$ M). The SA-Biotin complex is highly thermostable and resistant to extreme pH, denaturing reagents, and enzyme degradation. By targeting biotin to biomolecules this interaction with SA can be exploited in a number of biochemical assays.
Stability	One year at -70 centigrade from date of shipment.
Storage	Store product at -70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.28 $\mu\text{g}/\mu\text{L}$

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Storage Buffer 50 mM Na₂HPO₄ pH7.5, 300 mM NaCl, 10% glycerol, and 1 mM DTT.

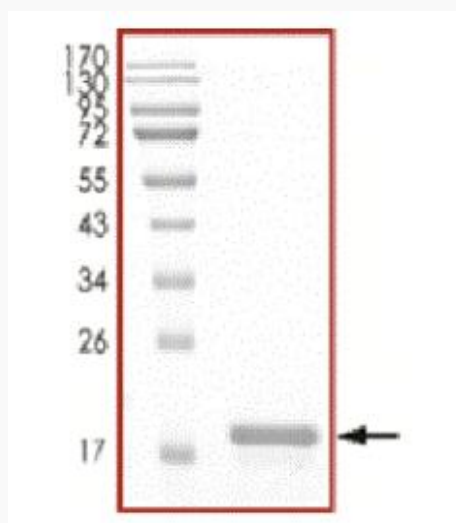
Shipping Dry Ice

GENE INFORMATION

Official Symbol SA

Synonyms SA; streptavidin

SDS-PAGE



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