

Core Streptavidin

Cat. No. Streptavidin-2939S **Lot. No.** (See product label)

SPECIFICATION

Product Overview Streptomyces avidinii was first isolated from the broth culture of Streptomyces avidinii as a biotin binding protein. Similar to Avidin, streptavidin consists of four identical subunits in a tetramer, each of which can bind biotin, that is, one molecule of streptavidin can bind four molecules of biotin, and the binding force is very high ($K_d \sim 10^{-15}$). Compared with avidin, streptavidin has a low isoelectric point and does not contain a sugar group, so its non-specific binding is much lower than that of avidin when used in antigen-antibody detection systems.

Species Streptomyces avidinii

Source E.coli

Tag Non

Bio-activity $\geq 16.0 \text{ U/mg}$ (1U is bound to $1 \mu\text{g}$ biotin)

Molecular Mass 53.6kDa(13.4kDa/ subunit)

Purity $\geq 95\%$ (SDS-PAGE)

Storage Freeze-dried powder $-20 \pm 5^\circ\text{C}$, after dissolution to avoid repeated freeze-thaw.

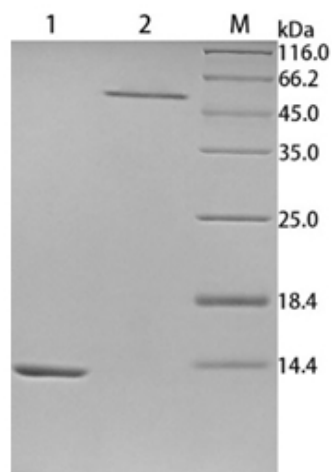
Reconstitution Dissolved in distilled water $\geq 10 \text{ mg/mL}$.

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SDS-PAGE



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