

Streptavidin

Catalog No.	CSI12857	Quantity:	2 mg
	CSI12858		10 mg
	CSI12859		100 mg

Description: Streptavidin is a tetrameric protein composed of identical subunits. Each subunit binds one biotin molecule with a KD of $\sim 1 \times 10^{-15}$ M. The preparation contains an N- and C-terminal shortened variant (core streptavidin) with improved properties concerning homogeneity, solubility, resistance towards proteolytic degradation and accessibility of the biotin binding pocket as compared to native streptavidin.

Source: *Bacterium Streptomyces avidinii*

Molecular Weight: 53.0 kDa

Formulation: Lyophilized from a sterile filtered solution in 10 mM potassium phosphate buffer, pH 6.5

Purity: > 95% as determined by SDS-PAGE analysis

Endotoxin Level: < 0.1 ng/ μ g of Streptavidin

Specific Activity: > 17.2 U/mg. 1 unit binds 1 μ g biotin. Proteolytic activity is < 10^{-3} U/mg (24 hours at 25°C and pH 8.0).

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to the vial to fully solubilize the protein.

Storage & Stability: Store at -20°C to -80°C. For long term storage of reconstituted protein, add 1 mM EDTA and/or 0.02% sodium azide or pass the solution through a sterile filter. **Avoid repeated freeze-thaw cycles.**

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

