

## Native Streptavidin

<b>Catalog No.</b>	CSI20075A	<b>Quantity:</b>	10 mg
	CSI20075B		100 mg
	CSI20075C		1.0 g

**Description:** Streptavidin is a protein produced by *Streptomyces avidinii* and isolated by purification from fermentation broth. It consists of 4 identical subunits, each bearing an active binding site for Biotin. It is stable over a wide range of pH and decomposes only in the presence of SDS at temperatures >60 °C. The neutral isoelectric point (5-6) of Streptavidin is in the same area where many biological interactions occur. Further, the high affinity of the Biotin:Streptavidin interaction results in a very quick reaction with a high signal to noise ratio. Streptavidin is non- or very low charged, around pH 7, reducing non-specific binding to charged molecules to a very limited level. It binds 4 moles of Biotin per mole of protein with a very high affinity. Streptavidin is non-glycosylated and does not react non-specifically with endogenous Lectins when used in assays on cells and tissues.

**Source:** *Streptomyces avidinii*

**Molecular Weight:** 55 kDa

**Formulation:** Lyophilized

**Purity:** >95% by SDS-PAGE (1 band, non-reduced)

**Biological Activity:** >13 U/mg ( 1 U binds 1 µg Biotin)

**Reconstitution:** Reconstitute in distilled water containing 0.05 M NaCl, pH 9.0 (or preferred alternate buffer) to a concentration of 10 mg/mL.

**Storage & Stability:** Store desiccated at -20°C. 18 months.

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