

## Active Recombinant *Streptomyces avidinii* Streptavidin

**Cat. No.** Streptavidin-5117S    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Streptavidin Protein (Streptavidin) Leu 13 - Pro 159 (Accession # CAA27265) was produced in E.coli cells
<b>Species</b>	<i>Streptomyces avidinii</i>
<b>Source</b>	E.coli
<b>ProteinLength</b>	13-159 a.a.
<b>Description</b>	Streptavidin is a 60 kDa tetrameric protein purified from the bacterium <i>Streptomyces avidinii</i> , and exhibits high binding affinity for biotin. Able to bind one molecule of biotin with each subunit. Streptavidin (PI=6.0-7.5) has lower level of non-specific binding to various biological components at physiological pH than avidin (PI=7.4), resulting from its isoelectric point (PI). Streptavidin is useful in affinity chromatography, ELISA, immunohistochemistry and Western Blotting.
<b>Predicted N Terminal</b>	Met
<b>Form</b>	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally Mannitol or Trehalose are added as protectants before lyophilization.
<b>Bio-activity</b>	One unit is defined as the amount of Streptavidin required to bind 1.0 µg biotin by HABA-Avidin method. 14-15 units per mg protein supplied at 1 mg/ml.
<b>Molecular Mass</b>	15.4 kDa. DTT-reduced Protein migrates as 15 kDa.

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<b>Endotoxin</b>	Less than 1.0 EU per $\mu\text{g}$ of the Streptavidin by the LAL method.
<b>Purity</b>	>95% as determined by SDS-PAGE.
<b>Storage</b>	Avoid repeated freeze-thaw cycles.No activity loss was observed after storage at:In lyophilized state for 1 year (4oC-8oC); After reconstitution under sterile conditions for 1 month (4oC-8oC) or 3 months (-20oC to -70oC).

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