

# Active Recombinant Streptomyces avidinii Streptavidin

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

## SPECIFICATION

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <b>Product Overview</b>     | Recombinant Streptavidin Protein (Streptavidin) Leu 13 - Pro 159 (Accession # CAA27265) was produced in E.coli cells                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>              | Streptomyces avidinii                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <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 Streptomyces avidinii, 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 µg 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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