

## Active Recombinant Streptavidin Protein

**Cat. No.** Streptavidin-309    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <b>Product Overview</b> | Recombinant Streptavidin Protein without tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | <p>Streptavidin is a biotin-binding protein found in the culture broth of the bacterium <i>Streptomyces avidinii</i>. Streptavidin can bind to four moles of biotin per mole of protein, and it shows extremely high affinity, approximately 10,000-15,000 Da. Streptavidin lacks the carbohydrate side chains present on avidin and has an isoelectric point of 6.5 to avidin's 10 far closer to that at which most useful biological interactions occur. As a result, Streptavidin frequently exhibits much lower non-specific binding than avidin does.</p> |
| <b>Form</b>             | Sterile Filtered White lyophilized (freeze-dried) powder.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Bio-activity</b>     | >15 U/mg protein, 1 U is defined as the quantity of protein that binds 1 microgramme                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Mass</b>   | 13,500 Da                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Purity</b>           | This product is affinity purified by 2-Imino Biotin Resin with the purity more than 95% and shows predominantly a single band by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Storage</b>          | The powder may be stored at 4 centigrade for several weeks. For long-term storage, store at -20 centigrade.                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

### GENE INFORMATION

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|------------------------|---------------------------------------------------------------------------|
| <b>Official Symbol</b> | Streptavidin                                                              |
| <b>Synonyms</b>        | Streptavidin; SA V1; SA V2; strepavidin; Streptavidin V1; Streptavidin V2 |