



Product Information Sheet

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| Product Name: | Streptavidin |
| Catalog Number: | AS-60659 |
| Amount: | 5 mg (This product containing 90% streptavidin and 10% sodium chloride by weight.) |
| Physical State: | Lyophilized powder. |
| Storage: | The lyophilized powder is stable for years at 4 °C. Reconstitute the powder with desired buffer, such as phosphate-buffered saline. The reconstituted solution will be stable for three months at 4°C if it is added with sodium azide to a final concentration of 2 mM or thimerosal to 0.02%. The reconstituted solution may also be divided into aliquots and stored at -20°C for long-term storage. |
| Description: | Streptavidin is a 55,000-dalton nonglycosylated tetrameric protein. It was purified from culture broth of the bacterium <i>Streptomyces avidinii</i> . Streptavidin binds to D-biotin noncovalently and with high affinity ($K_d \sim 10^{-15}M$). The activity of this product is ~14 units/mg, where one unit is defined as the amount of protein required to bind 1.0 μg of D-biotin. The concentration (mg/mL) of streptavidin is calculated as $A_{280nm} / 3.2$. |

For *in vitro* research use only