



**ENZYMES**  
CAT# STRE-70-4801  
CAS# 9013-20-1

## ENZYMES

# Streptavidin

**ORIGIN** *Streptomyces avidini*

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### ► SPECIFICATIONS

|                           |   |
|---------------------------|---|
| <b>Appearance</b>         | White to light brown/grey free-flowing powder                                       |
| <b>Purity</b>             | A single band on SDS-PAGE giving a molecular weight of approximately 13,000 daltons |
| <b>Moisture</b>           | <10% by Karl Fischer  |
| <b>Free binding sites</b> | >3 per tetramer by biotin binding assay   |
| <b>Solution quality</b>   | Clear colourless solution, essentially free from particulate matter                 |

### ► APPLICATION

Streptavidin is used in conjunction with biotin in techniques such as ELISA, RIA, DNA probes, immunocytochemistry and protein blotting. One tetrameric molecule of streptavidin can combine with four molecules of biotin and so produces a powerful amplification step. Unlike avidin (the biotin binding protein isolated from egg white), streptavidin contains no carbohydrate and therefore has an isoelectric point close to neutrality. These properties greatly reduce the amount of non-specific binding.

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