

Streptavidin

Catalog Number: bs-0437P

AA Seq: 25-183/183

Predicted MW: 12

Detected MW: 12/38/55 kDa

Tags: Tag free

Activity: Yes

Endotoxin: Not analyzed

Purity: >95% as determined by SDS-PAGE

Purification: AC

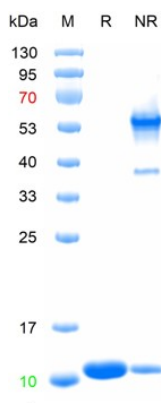
Form: Lyophilized

Storage: Lyophilized from 0.22um filtered solution in PBS (pH7.4).

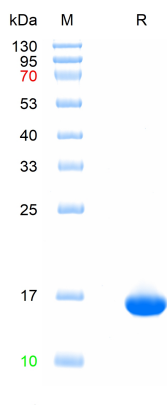
Stored at -70°C or -20°C. Avoid repeated freeze/thaw cycles.

Background: Streptavidin is a tetrameric protein composed of identical subunits. Each subunit binds one biotin molecule with a KD of $\sim 1 \times 10^{-15}$ M. The preparation contains an N- and C-terminal shortened variant (core streptavidin) with improved properties concerning homogeneity, solubility, resistance towards proteolytic degradation and accessibility of the biotin binding pocket as compared to native streptavidin. The high affinity recognition of biotin and biotinylated molecules has made streptavidin one of the most important components in diagnostics and laboratory kits.

VALIDATION IMAGES



The purity of the protein is greater than 90% as determined by reducing SDS-PAGE.



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PRODUCT SPECIFIC PUBLICATIONS

[IF=13.6] Jiawei Liu. et al. Preparation of immunomagnetic composite nanostructures with bifunctional four-arm PEG derivatives as linkers for the ultrafast enrichment of zearalenone and its metabolites. J HAZARD MATER. 2024 Apr;;134321 Other ; . 38723478

[IF=14.188] Xuehui Liu. et al. Stimuli-Mediated Specific Isolation of Exosomes from Blood Plasma for High-Throughput Profiling of Cancer Biomarkers. 2021 Dec 19 Other ; . 10.1002/smt.202101234

[IF=10.334] Zhao Cui. et al. Chip-DSF: A rapid screening strategy for drug protein targets. PHARMACOL RES. 2022 Aug;182:106346 Other ; . 35809766

[IF=8.5] Jingrui Yuan. et al. Hue-change coupled with CRISPR-Cas12a lateral flow assay for the semiquantitative detection of *Salmo salar* adulteration. FOOD CHEM. 2025 Jan;463:141088 ; . 39241431

[IF=9] Wan Yangu. et al. C1GalT1 expression reciprocally controls tumour cell-cell and tumour-macrophage interactions mediated by galectin-3 and MGL with double impact on cancer development and progression. CELL DEATH DIS. 2023 Aug;14(8):1-15 WB ; Human . 37612278