



STREPTAVIDIN PHYCOERYTHRIN Conjugated - S000-08

Code: S000-08

Size: 1 mL

Product Description: STREPTAVIDIN PHYCOERYTHRIN Conjugated - S000-08

Concentration: 0.5 mg/mL by absorbance = 82.0 at 565 nm

Physical State: Lyophilized

Label	R-Phycoerythrin (RPE)
Emission Wavelength	575
Excitation Wavelength	488
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Reconstitution Volume	1.0 mL
Reconstitution Buffer	Restore with deionized water (or equivalent)
Stabilizer	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Preservative	0.01% (w/v) Sodium Azide
Storage Condition	Store vial at 4° C prior to restoration. Restore with deionized water (or equivalent). This product is stable at 4° C as an undiluted liquid. Dilute only prior to immediate use. Centrifuge product if not completely clear after standing at room temperature. Do not freeze after reconstitution. Store reagent in the dark. Use subdued lighting during handling and incubation of cells prior to analysis.
Synonyms	Streptavidin PE, Phyco Streptavidin, SA Phycoerythrin, R-Phycoerythrin, Phycoerythrin conjugated streptavidin
Application Note	Phycoerythrin conjugated streptavidin is suitable for immunomicroscopy, flow cytometry or FACS analysis, as well as other antibody based fluorescent assays requiring extremely low background levels, absence of F(c) mediated binding, lot-to-lot consistency, high titer and specificity. The maximum amount of Streptavidin Phycoerythrin required to stain 1 x 10E6 cells in flow cytometry is approximately 1.0 µg of antibody conjugate. Lesser amounts of Streptavidin Phycoerythrin may be sufficient for staining. Optimal titers for other applications should be determined by the researcher. As a general guideline dilutions of 1:100 to 1:250 should be suitable for most applications.
Background	Streptavidin is a bacterial protein (from <i>Streptomyces avidinii</i>) that has an exceptionally high binding affinity for biotin (B7). Streptavidin-biotin binding is one of the strongest known non-covalent interactions and is highly resistant to many conditions that would typically cause dissociation (such as organic solvents, denaturants, detergents, and extreme temperatures or pH). Streptavidin's affinity for biotin can be employed in a variety of experimental uses, from purifications to standards, to means of detection or pull down experiments. Phycoerythrin (PE) is a red-pigmented protein found in cyanobacteria and red algae. Phycoerythrin absorbs light blue-green/yellow light and emits lightly orange/yellow light.
Purity And Specificity	Streptavidin-Phycoerythrin was prepared from electrophoretically purified streptavidin isolated from <i>Streptomyces avidinii</i> conjugated to the chromophore R-Phycoerythrin. Free fluorochrome is removed by tandem molecular sieve chromatography.
IF Microscopy	1:100 - 1:250
Flow Cytometry	1:100 - 1:250
Expiration	Expiration date is one (1) year from date of opening.
Related Products	
610-1619-0500	Biotin Conjugated Affinity Purified Anti-MOUSE IgG (H&L) (GOAT) (Min X Human Serum Proteins) - 610-1619-0500
611-106-B76	Biotin Conjugated Affinity Purified Anti-RABBIT IgG (H&L) (GOAT) - 611-106-B76
A003-02	AVIDIN Fluorescein Conjugated - A003-02
S000-00	STREPTAVIDIN RHODAMINE Conjugated - S000-00

Related Links

[NCBI - CAA00084.1](#)

[http://www.ncbi.nlm.nih.gov/protein/
CAA00084.1](http://www.ncbi.nlm.nih.gov/protein/CAA00084.1)

UniProtKB - <http://www.uniprot.org/uniprot/P22629>
P22629

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