



Streptavidin [R-PE] (DAG4457)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Streptavidin, R-PE-conjugated
Species	N/A
Purity	Purified streptavidin was covalently conjugated to R-Phycoerythrin (R-PE) and the conjugate isolated by size exclusion chromatography. A567/A280 = 3.7.
Conjugate	R-PE
Applications	Flow Cytometry
Recommended Usage	Streptavidin can be used in conjunction with biotinylated antibodies as an avidin/biotin labeling system for flow cytometry.
Format	Liquid
Concentration	90 µg/mL
Size	120 tests
Buffer	10 mM PBS pH 7.4, 1% BSA, 0.15% Sodium Azide (as a preservative).
Preservative	0.15% Sodium Azide
Storage	Store at 2 - 5°C. Do not freeze! Protect from light. Product should retain activity for at least 12 months after shipping date when stored as recommended.

BACKGROUND

Introduction	Streptavidin is a 52.8 kDa protein purified from the bacterium <i>Streptomyces avidinii</i> . Streptavidin homo-tetramers have an extraordinarily high affinity for biotin (also known as vitamin B7 or vitamin H). With a dissociation constant (Kd) on the order of $\approx 10^{-14}$ mol/L, the
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binding of biotin to streptavidin is one of the strongest non-covalent interactions known in nature. Streptavidin is used extensively in molecular biology and bionanotechnology due to the streptavidin-biotin complex's resistance to organic solvents, denaturants (e.g. guanidinium chloride), detergents (e.g. SDS, Triton), proteolytic enzymes, and extremes of temperature and pH.

Keywords Streptavidin
