



Streptavidin [[Gold] (DAG-T1439)

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

PRODUCT INFORMATION

Product Overview	Streptavidin was conjugated to a 40 nm colloidal gold particle at 20 micrograms per mL
Species	N/A
Conjugate	Gold
Size	1 ml, 10 ml, 100 ml
Buffer	Bovine Serum Albumin/Phosphate pH 7.4
Preservative	0.1% Sodium Azide
Storage	4°C

BACKGROUND

Introduction	Streptavidin /?str?p?t?v?d?n/ is a 52.8 kDa protein purified from the bacterium Streptomyces avidinii. 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 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