

## Product datasheet for **RA021AP**

### Streptavidin Protein

#### Product data:

Product Type:	Native Proteins
Description:	Streptavidin protein, 1 mg
Protein Source:	<i>S. avidinii</i>
Concentration:	lot specific
Purity:	Prepared from Electrophoretically pure Streptavidin. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Alkaline Phosphatase (calf intestine) and anti-Streptavidin. No reaction was observed against anti-Avidin.
Conjugation:	AP
Buffer:	State: Liquid (sterile filtered) purified Ig fraction. Buffer System: 50 mM Tris Chloride, 150 mM Sodium Chloride, 1 mM Magnesium Chloride, 0.1 mM Zinc Chloride, 50% (v/v) Glycerol, pH 8.0 <b>Label:</b> Alkaline Phosphatase (Calf Intestine; Molecular Weight 140, 000 daltons). Preservative: 0.05% (w/v) Sodium Azide Stabilizer: 10 mg/ml BSA (IgG and Protease free) Presentation Label: AP
Preparation:	Liquid (sterile filtered) purified Ig fraction.
Applications:	ELISA: 1/8,000-1/32,000. Western blot: 1/1,000-1/4,000. Immunohistochemistry: 1/200-1/1,000.
Protein Description:	Streptavidin Alkaline Phosphatase Conjugated
Storage:	Store vial at 2-8°C before opening. <b>DO NOT FREEZE!</b> This product is stable at 2-8°C as an undiluted liquid. Dilute only prior to immediate use. Freezing alkaline phosphatase conjugates will result in a substantial loss of enzymatic activity.
Stability:	Shelf life: one year from despatch.



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**Summary:**

Streptavidin, a tetrameric protein secreted by *Streptomyces avidinii*, binds tightly to a small growth factor biotin. It finds wide use in molecular biology through its extraordinarily strong affinity for the vitamin biotin; the dissociation constant ( $K_d$ ) of the biotin-streptavidin complex is on the order of  $\sim 10^{-15}$  mol/L. The high affinity recognition of biotin and biotinylated molecules has made streptavidin one of the most important components in diagnostics and laboratory kits.