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Product datasheet for BA662

Streptavidin Protein

Product data:

Product Type:	Native Proteins
Description:	Streptavidin protein, 5 mg
Protein Source:	S. avidinii
Predicted MW:	53 kDa
Purity:	>95% pure (SDS-PAGE)
Buffer:	Presentation State: Purified State: Lyophilized Streptavidin from *Streptomyces avidinii* (Essentially salt free) Buffer System: PBS Preservative: 1% Mannitol Stabilizer: 1% Dextran
Bioactivity:	Biological: One unit will bind 1 µg of D-Biotin. Specific: 17 U/mg Streptavidin
Reconstitution Method:	Restore with distilled water or saline. Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. We recommend that the vial is gently mixed after reconstitution.
Preparation:	Lyophilized Streptavidin from *Streptomyces avidinii* (Essentially salt free)
Applications:	Can be used for biotinylated antibody detection and quantification by ELISA, blotting and immunohistology; as a ligand for immobilization on activated matrices.
Protein Description:	Purified Streptavidin prepared by Affinity Chromatography
Note:	pI: 5
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Synonyms:	StAv

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Summary: Streptavidin is a tetrameric protein purified from Streptomyces sp. that binds very tightly to the vitamin biotin with a Kd of ~ 10-14 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.

Protein Families: Can be used for biotinylated antibody detection and quantification by ELISA, blotting and immunohistology; as a ligand for immobilization on activated matrices.