

Core Streptavidin, Recombinant

CATALOG NO.:	7936-1	1 mg
	7936-5	5 mg
	7936-10	10 mg
SOURCE:	<i>E. coli</i>	
ACCESS #:	P22629 (aa 37-167)	
PURITY:	≥95% by SDS_PAGE	
MOL. WEIGHT:	~14 kDa (monomer), ~56 kDa (tetramer)	
FORM:	Lyophilized powder, essential salt-free	
SOLUBILITY:	≥ 10 mg/ml in water ≥ 50 mg/ml in neutral or alkaline buffer	
BINDING CAPACITY:	≥ 12 biotin/mg Streptavidin	

Note: The binding capacity/ activity is determined by using BioVision's Biotin Quantitation Kit (Colorimetric) Cat# K811 in 0.2 M Phosphate buffer pH 7.0, based on biotin binding (HABA) assay. The theoretical binding activity is 14 biotin/mg of streptavidin.

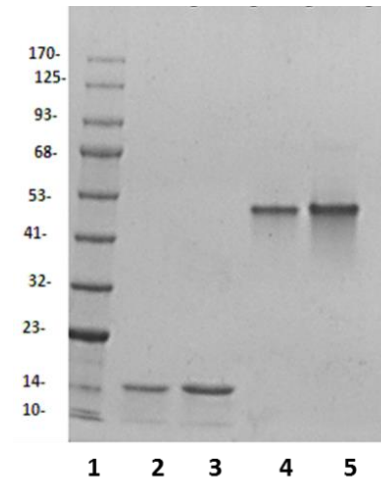
STORAGE CONDITIONS: Store at 4°C with desiccant. Centrifuge vial prior to opening. After reconstitution, aliquots are stable at -20°C for up to 6 months. Avoid repeated freeze and thaw cycles.

DESCRIPTION: Streptavidin is a non-glycosylated protein originally isolated from bacterium *Streptomyces avidinii*. Due to its very high affinity for biotin it is widely used to bridge biotinylated probes and enzymes.

APPLICATIONS:

- Immunoassays
- Immunohistochemistry
- FISH (Fluorescence In Situ Hybridization)
- Flow Cytometry
- Microarrays
- Blot analysis

- Isolated Biotinylated Molecules
- DNA Hybridization Techniques
- MHC Tetramer Technology



SDS-PAGE Analysis of purified Core Streptavidin: Lane 1: MW marker; Lane 2-3: 2 and 6 µg of heated core streptavidin showing monomeric protein; Lane 4-5: 2 and 6 µg of core streptavidin respectively shows tetrameric protein without heating.

RELATED PRODUCTS:

- Streptavidin coated 96-well Plate (6523)
- Streptavidin-Sepharose Beads (6565)
- D-(+)-Biotin (9587)
- Biotin Quantitation Kit (Colorimetric) (K811)

FOR RESEARCH USE ONLY! Not to be used in humans.