

Purified Streptavidin

Catalog# / Size	280302 / 250 µg
Regulatory Status	RUO
Description	Streptavidin is a 52.8 kD tetrameric protein obtained from <i>Streptomyces avidinii</i> . It binds to biotin with a very high affinity and is one of the strongest interactions in nature with a dissociation constant of 10 ⁻¹⁴ mol/L. It is used in a wide range of applications including ELISA, flow cytometry, molecular biology, and bionanotechnology.

Product Details

Formulation	Phosphate-buffered solution containing 0.09% sodium azide.
Concentration	1.0 mg/ml
Storage & Handling	Store between 2°C and 8°C.
Application	FC - Quality tested ELISA Capture, ELISA Detection, ICC, IHC-F, IHC-P, IP, WB - Reported in the literature, not verified in house
Recommended Usage	To coat one 96-well plate dilute 24 µL of Purified Streptavidin into 11.976ml of 1X Coating Buffer (Cat. No. 421701, Coating Buffer 5X concentrate). Final concentration in the coated plate is 2 µg/mL. This recommendation is to perform the protocol for HLA class I ELISA to evaluate Flex-T™ peptide exchange. For other applications the reagent needs to be optimized.
Product Citations	<ol style="list-style-type: none">1. Wu C, <i>et al.</i> 2020. J Am Chem Soc. 142:12314. PubMed2. Khiew SH, <i>et al.</i> 2020. J Clin Invest. 130:3453. PubMed

Antigen Details

Structure	52.8 kD tetrameric protein.
Distribution	Streptavidin binds to biotin with high affinity.
Ligand/Receptor	Biotin.
Antigen References	<ol style="list-style-type: none">1. Dundas CM, <i>et al.</i> 2013. <i>Appl. Microbiol. Biotechnol.</i> 97:9343.2. Zhao X, <i>et al.</i> 2013. <i>J. Anal. Methods Chem.</i> 2013:581093.3. Kaplan DL, <i>et al.</i> 1999. <i>Biomol. Eng.</i> 16:135.4. Wilbur DS, <i>et al.</i> 1999. <i>Biomol. Eng.</i> 16:113.5. Sano T, <i>et al.</i> 1998. <i>J. Chromatogr. B. Biomed. Sci. Appl.</i> 715:85.
Gene ID	NA

Related Protocols

[Active Protocols: Sandwich ELISA - Video](#)

[Flex-T™ HLA Class I ELISA Protocol](#)

[Cell Surface Flow Cytometry Staining Protocol](#)

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