

## Purified Streptavidin

<b>Catalog# / Size</b>	280302 / 250 µg
<b>Regulatory Status</b>	RUO
<b>Description</b>	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 <sup>-14</sup> mol/L. It is used in a wide range of applications including ELISA, flow cytometry, molecular biology, and bionanotechnology.

### Product Details

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<b>Formulation</b>	Phosphate-buffered solution containing 0.09% sodium azide.
<b>Concentration</b>	1.0 mg/ml
<b>Storage &amp; Handling</b>	Store between 2°C and 8°C.
<b>Application</b>	<a href="#">FC - Quality tested</a> <a href="#">ELISA Capture, ELISA Detection, ICC, IHC-F, IHC-P, IP, WB - Reported in the literature, not verified in house</a>
<b>Recommended Usage</b>	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.
<b>Product Citations</b>	<ol style="list-style-type: none"><li>1. Wu C, <i>et al.</i> 2020. J Am Chem Soc. 142:12314. <a href="#">PubMed</a></li><li>2. Khiew SH, <i>et al.</i> 2020. J Clin Invest. 130:3453. <a href="#">PubMed</a></li></ol>

### Antigen Details

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<b>Structure</b>	52.8 kD tetrameric protein.
<b>Distribution</b>	Streptavidin binds to biotin with high affinity.
<b>Ligand/Receptor</b>	Biotin.
<b>Antigen References</b>	<ol style="list-style-type: none"><li>1. Dundas CM, <i>et al.</i> 2013. <i>Appl. Microbiol. Biotechnol.</i> 97:9343.</li><li>2. Zhao X, <i>et al.</i> 2013. <i>J. Anal. Methods Chem.</i> 2013:581093.</li><li>3. Kaplan DL, <i>et al.</i> 1999. <i>Biomol. Eng.</i> 16:135.</li><li>4. Wilbur DS, <i>et al.</i> 1999. <i>Biomol. Eng.</i> 16:113.</li><li>5. Sano T, <i>et al.</i> 1998. <i>J. Chromatogr. B. Biomed. Sci. Appl.</i> 715:85.</li></ol>
<b>Gene ID</b>	NA

### Related Protocols

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

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

[Cell Surface Flow Cytometry Staining Protocol](#)

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