

## Streptavidin Quantum Dots

### DESCRIPTION

Ocean NanoTech's biocompatible quantum dots (QD) offer high photostability and high fluorescence with great long-term colloidal stability over a broad pH range. They are also accessible to simple and efficient bioconjugation techniques, such as EDC coupling and SMCC conjugation. The surface of the QDs is engineered to reduce non-specific binding for a variety of applications, such as sensing, cellular imaging, and Förster Resonance Energy Transfer (FRET). Streptavidin QDs are QDs with streptavidin. Biotinylated proteins, antibodies, nucleic acids or other ligands with biotin can be easily coupled to the QDs. Since QDs are nanosized particles, monobiotin labeled molecules are preferred in to keep the colloidal stability of the QDs after binding. With excellent colloidal stability and unique surface coating, the streptavidin QDs exhibit high binding capacity and low non-specific binding.

### FEATURES

- Narrow emission peak
- Wide choice of emission colors
- Reduced nonspecific interactions
- High colloidal stability
- Lyophilizable

### STORAGE:

- Store at 2-8°C.

### SPECIFICATION

- **Reaction group:** streptavidin
- **Emission range:** 425 nm-620 nm
- **Full Width at Half Maximum:** < 35 nm
- **Zeta potential:** from -25 mV to -40mV
- **Concentration:** 1 uM
- **Storage buffer:** 10 mM PBS buffer (pH 7.4), 0.01% BSA and 0.02% Na<sub>3</sub>N.

### AVAILABLE PRODUCTS

Product Description	Emission	Catalog	Unit size	Catalog	Unit size
Streptavidin Quantum Dots	425 nm	QSS425-01	1 nmol	QSS425-04	4 nmol
Streptavidin Quantum Dots	525 nm	QSS525-01	1 nmol	QSS560-04	4 nmol
Streptavidin Quantum Dots	540 nm	QSS540-01	1 nmol	QSS540-04	4 nmol
Streptavidin Quantum Dots	560 nm	QSS560-01	1 nmol	QSS560-04	4 nmol
Streptavidin Quantum Dots	580 nm	QSS580-01	1 nmol	QSS580-04	4 nmol
Streptavidin Quantum Dots	600 nm	QSS600-01	1 nmol	QSS600-04	4 nmol
Streptavidin Quantum Dots	620 nm	QSS620-01	1 nmol	QSS620-04	4 nmol

