

## Carboxyl Quantum Dots

### DESCRIPTION

Ocean NanoTech's biocompatible quantum dots (QDs) offer high photostability and high fluorescence with great long-term colloidal stability over a broad pH range. 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). Carboxyl QDs are QDs with carboxyl groups. Proteins, antibodies, nucleic acid or other ligands with amine group can be easily coupled to these QDs by EDC crosslinker. With excellent colloidal stability and unique surface coating, these carboxyl 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
- Conjugation in buffer, DMSO or DMF
- Autoclavable
- Lyophilizable

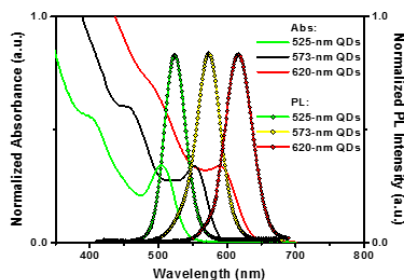
### SPECIFICATION

- **Reaction group:** carboxylic acid
- **Emission range:** 425 nm-665 nm
- **Full Width at Half Maximum:** < 35 nm
- **Zeta potential:** from -30 mV to -40mV
- **Concentration:** 8  $\mu$ M
- **Storage buffer:** DI water

**STORAGE & USAGE:** Store at 2-8°C.

### AVAILABLE PRODUCTS

Product Description	Emission	Catalog	Unit size	Catalog	Unit size
Carboxyl Quantum Dots	425 nm	QSH425-04	0.5 mL	QSH425-20	2.5 ml
Carboxyl Quantum Dots	525 nm	QSH525-04	0.5 mL	QSH560-20	2.5 ml
Carboxyl Quantum Dots	540 nm	QSH540-04	0.5 mL	QSH540-20	2.5 ml
Carboxyl Quantum Dots	560 nm	QSH560-04	0.5 mL	QSH560-20	2.5 ml
Carboxyl Quantum Dots	580 nm	QSH580-04	0.5 mL	QSH580-20	2.5 ml
Carboxyl Quantum Dots	600 nm	QSH600-04	0.5 mL	QSH600-20	2.5 ml
Carboxyl Quantum Dots	620 nm	QSH620-04	0.5 mL	QSH620-20	2.5 ml
Carboxyl Quantum Dots	645nm	QSH645-04	0.5 mL	QSH645-20	2.5 ml
Carboxyl Quantum Dots	665 nm	QSH665-04	0.5 mL	QSH665-20	2.5 ml



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- **Reaction Group:** Carboxylic acid