



PEG Quantum Dots PRODUCT DATA SHEET

PEG Quantum Dots

Description

Biocompatible quantum dots (QD) 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).

PEG Quantum Dots are a group of water soluble core/shell quantum dots with amphiphilic polymer and PEG coating. There is not any functional group on the surface of the quantum dots. The colloidal stability of PEG Quantum Dots is exceptionally high. It is stable in most buffer solutions in the pH range of 5-10. With excellent colloidal stability and unique surface coating, the PEG QDs exhibit high binding capacity and low non-specific binding.

Product List

Cat No	Product Name	Concentration	Size
AQD-PEG-425	PEG Quantum Dots, 425 nm	1 μ M	2 nmol
AQD-PEG-525	PEG Quantum Dots, 525 nm	1 μ M	2 nmol
AQD-PEG-540	PEG Quantum Dots, 540 nm	1 μ M	2 nmol
AQD-PEG-560	PEG Quantum Dots, 560 nm	1 μ M	2 nmol
AQD-PEG-580	PEG Quantum Dots, 580 nm	1 μ M	2 nmol
AQD-PEG-600	PEG Quantum Dots, 600 nm	1 μ M	2 nmol
AQD-PEG-620	PEG Quantum Dots, 620 nm	1 μ M	2 nmol
AQD-PEG-645	PEG Quantum Dots, 645 nm	1 μ M	2 nmol
AQD-PEG-665	PEG Quantum Dots, 665 nm	1 μ M	2 nmol

Characteristics

Functional group: PEG

Emission range: 425 nm ~ 665 nm

Full Width at Half Maximum: < 35 nm

Zeta potential: from -10 mV to -30 mV



Concentration: 1 μ M

Storage buffer: DI water

Storage temperature: 2-8°C

Advantages

Narrow emission peak

Wide choice of emission colors

Low non-specific binding

High colloidal stability

Autoclavable

Lyophilizable

Applications

Immunoassay

Multiplexing

Tissue Imaging

Storage

Store at 2-8°C. **DO NOT FREEZE.**

Ordering Information

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