



## PRODUCT DATA SHEET

### CsPbX3 Quantum Dots in Hexane

Quantum dots (QDs) are fluorescent semiconductor nanocrystals. Abvigen offers a complete line of core/shell Quantum dots products in solid form, in organic solvents or aqueous solution. Abvigen's Quantum dots can be used in photovoltaics, light emitting diodes (LEDs), telecommunication and diode lasers. They can also be used in sensing, drug delivery, cell imaging, labeling of biomolecules, as well as other applications in life sciences and biotechnology.

For custom sizes, formulations or bulk quantities please contact our customer service department.

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| Cat No    | Product Name                               | Full Width at Half Maximum | Quantum Yield |
|-----------|--------------------------------------------|----------------------------|---------------|
| BOQD-1-40 | CsPbX3 Quantum Dots in Hexane, 400 ± 10 nm | ≤ 15 nm                    | ≥ 40%         |
| BOQD-1-42 | CsPbX3 Quantum Dots in Hexane, 420 ± 10 nm | ≤ 15 nm                    | ≥ 40%         |
| BOQD-1-44 | CsPbX3 Quantum Dots in Hexane, 440 ± 10 nm | ≤ 20 nm                    | ≥ 60%         |
| BOQD-1-46 | CsPbX3 Quantum Dots in Hexane, 460 ± 10 nm | ≤ 20 nm                    | ≥ 60%         |
| BOQD-1-48 | CsPbX3 Quantum Dots in Hexane, 480 ± 10 nm | ≤ 20 nm                    | ≥ 60%         |
| BOQD-1-50 | CsPbX3 Quantum Dots in Hexane, 500 ± 10 nm | ≤ 20 nm                    | ≥ 60%         |
| BOQD-1-52 | CsPbX3 Quantum Dots in Hexane, 520 ± 10 nm | ≤ 20 nm                    | ≥ 60%         |
| BOQD-1-54 | CsPbX3 Quantum Dots in Hexane, 540 ± 10 nm | ≤ 25 nm                    | ≥ 70%         |
| BOQD-1-56 | CsPbX3 Quantum Dots in Hexane, 560 ± 10 nm | ≤ 25 nm                    | ≥ 70%         |
| BOQD-1-58 | CsPbX3 Quantum Dots in Hexane, 580 ± 10 nm | ≤ 25 nm                    | ≥ 70%         |
| BOQD-1-60 | CsPbX3 Quantum Dots in Hexane, 600 ± 10 nm | ≤ 30 nm                    | ≥ 60%         |
| BOQD-1-62 | CsPbX3 Quantum Dots in Hexane, 620 ± 10 nm | ≤ 30 nm                    | ≥ 60%         |
| BOQD-1-64 | CsPbX3 Quantum Dots in Hexane, 640 ± 10 nm | ≤ 35 nm                    | ≥ 60%         |

Note: CsPbX3 (X=Cl/Br/I)

#### Characteristics

Concentration: 5 mg/ml; 10 mg/ml



Size: 10 mg

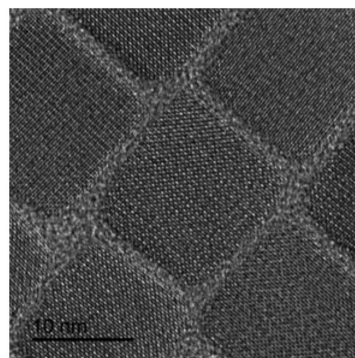
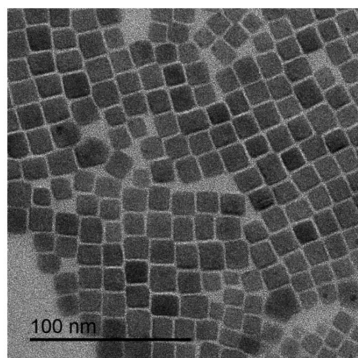
Emission range: 400 nm-640 nm

Buffer: Hexane

Form: Suspension

Shipping Condition: Ambient Temperature

Storage: 4°C



### **Properties**

Size tunable emission wavelength

Superior brightness

High resistance to photobleaching

Simultaneous excitation of multiple colors from a single light source

These properties make Quantum dots a unique class of light emitting nanoparticles that find promising potentials in optoelectronics, biotechnology and medicines

### **Features**

Narrow emission peak

Wide choice of emission colors

High colloidal stability

### **Applications**

Display

Solid-state lighting

Solar cells



QLED

**Ordering Information**

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