



## PRODUCT DATA SHEET

### ZnSe/ZnS 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
BO-Cd-6-40	ZnSe/ZnS Quantum Dots in Hexane, 400 $\pm$ 10 nm	$\leq$ 18nm	$\geq$ 80%
BO-Cd-6-42	ZnSe/ZnS Quantum Dots in Hexane, 420 $\pm$ 10 nm	$\leq$ 18nm	$\geq$ 80%
BO-Cd-6-44	ZnSe/ZnS Quantum Dots in Hexane, 440 $\pm$ 10 nm	$\leq$ 18nm	$\geq$ 80%

#### Characteristics

Concentration: 5 mg/ml; 10 mg/ml

Size: 10 mg

Emission range: 400 nm-440 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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