



## PRODUCT DATA SHEET

### CdS 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-5-38	CdS Quantum Dots in Hexane, 380 ± 10 nm	≤ 20 nm	≥ 60%
BO-Cd-5-40	CdS Quantum Dots in Hexane, 400 ± 10 nm	≤ 20 nm	≥ 60%
BO-Cd-5-42	CdS Quantum Dots in Hexane, 420 ± 10 nm	≤ 20 nm	≥ 60%
BO-Cd-5-44	CdS Quantum Dots in Hexane, 440 ± 10 nm	≤ 20 nm	≥ 60%
BO-Cd-5-46	CdS Quantum Dots in Hexane, 460 ± 10 nm	≤ 20 nm	≥ 60%

#### Characteristics

Concentration: 5 mg/ml; 10 mg/ml

Size: 10 mg

Emission range: 380 nm-460 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

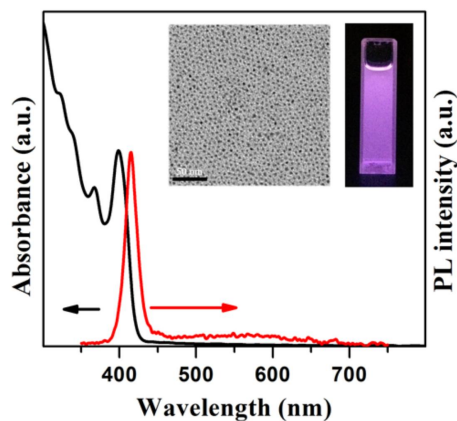
High colloidal stability

## Applications

Display

Solid-state lighting

Solar cells



## Ordering Information

website: [www.abvigen.com](http://www.abvigen.com)

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