



## **Ag<sub>2</sub>Se Quantum Dots in Hexane**

### **PRODUCT DATA SHEET**

## **Ag<sub>2</sub>Se Quantum Dots in Hexane**

### **Description**

Oil Double Ag<sub>2</sub>Se Quantum Dots is a semiconductor nanomaterial composed of silver and selenium, characterized by its quantum size effect. These quantum dots are commonly surface modified to enable stable dispersion in non-polar organic solvents, thus having broad application prospects in different fields. Due to its unique electronic structure, Oil Double Ag<sub>2</sub>Se Quantum Dots can exhibit unique optical properties. In solar cells and photodetectors, the narrow emission spectrum and high light absorption coefficient of Oil Double Ag<sub>2</sub>Se Quantum Dots enable them to improve the photoelectric conversion efficiency of the device. In the field of optoelectronics, Oil Double Ag<sub>2</sub>Se Quantum Dots can be used to develop new devices such as optical switches and modulators. Meanwhile, the hydrophobic ligands modified on the surface enable oil soluble Oil Double Ag<sub>2</sub>Se Quantum Dots to have good solubility in non-polar solvents. Due to its silver content, the substance also has antibacterial properties and good compatibility with cells, making it suitable for applications in materials science and biomedical fields.

Abvigen can provide high-quality Oil Double Ag<sub>2</sub>Se Quantum Dots with high fluorescence efficiency and good chemical stability, commonly used in fields such as biological fluorescence labeling, laser modules, solar cells, electronic communication, etc.

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

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### Characteristics

Type: Quantum Dots

Size: 10 mg

Format : Liquid

Surface: Oleic acid

Emission Peak: 1000 nm - 1600 nm

Buffer: DI Water

Store: Storage at 2 - 8 °C

### Storage

This product should be stored at 4°C. **DO NOT FREEZE.**

### For 10 mg of Ag<sub>2</sub>Se Quantum Dots in Hexane

Cat No	Product Name	Quantum Yield	FWHM/nm
AOAg2Se-1000	Ag <sub>2</sub> Se Quantum Dots in Hexane, 1000±50 nm	≥ 40%	≤ 150
AOAg2Se-1100	Ag <sub>2</sub> Se Quantum Dots in Hexane, 1100±50 nm	≥ 40%	≤ 150
AOAg2Se-1200	Ag <sub>2</sub> Se Quantum Dots in Hexane, 1200±50 nm	≥ 40%	≤ 150
AOAg2Se-1300	Ag <sub>2</sub> Se Quantum Dots in Hexane, 1300±50 nm	≥ 40%	≤ 150
AOAg2Se-1400	Ag <sub>2</sub> Se Quantum Dots in Hexane, 1400±50 nm	≥ 40%	≤ 150
AOAg2Se-1500	Ag <sub>2</sub> Se Quantum Dots in Hexane, 1500±50 nm	≥ 40%	≤ 150

### Ordering Information

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

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