



## **CdTe Quantum Dots-GSH PRODUCT DATA SHEET**

### **CdTe Quantum Dots-GSH**

#### **Description**

CdTe Quantum Dots-GSH is a material that undergoes surface modification by introducing glutathione (GSH) onto the surface of CdTe quantum dots. GSH is a tripeptide with excellent biocompatibility and biological activity, which can form a stable modification layer by coordinating with carbon or sulfur atoms on the surface of CdTe Quantum Dots. This surface modification not only significantly improves the water solubility and biocompatibility of quantum dots, but also enhances their fluorescence intensity and photostability. CdTe Quantum Dots-GSH has great potential for application in the biomedical field. Through surface modification, the biocompatibility of quantum dots has been improved and can be used in multiple fields such as biological imaging, cell labeling, and targeted drug delivery. The introduction of GSH enhances the solubility of quantum dots, making them suitable for stable existence in aqueous phase and enabling specific interactions with biomolecules. CdTe Quantum Dots-GSH can be used as a fluorescent probe for detecting the concentration of specific compounds or molecules, with high sensitivity and selectivity. In addition, CdTe Quantum Dots-GSH can also bind with drugs or targeted ligands to achieve precise drug delivery or biological labeling. Abvigen Inc can provide high-quality CdTe Quantum Dots-GSH. The product has uniform particle size and stable fluorescence intensity, which can meet the personalized material needs of various customers such as research and development, testing, and production consumption.

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

**Website:** [www.abvigen.com](http://www.abvigen.com) **Phone:** +1 929-202-3014 **Email:** [info@abvigenus.com](mailto:info@abvigenus.com)

#### **Characteristics**

Size: 10 mg

Surface: GSH

Composition: CdTe Quantum Dots

Emission: 520 nm-640 nm

Store: Storage at 2 - 8 °C



### **Storage**

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

### **Advantage**

Uniform particle size

Stable fluorescence performance

Low biological toxicity

Good water solubility

Good chemical stability

### **Applications**

Biomedical imaging

Drug delivery system

Cell imaging

Environmental testing

Biomarkers

Fluorescence sensor

### **Ordering Information**

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

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