

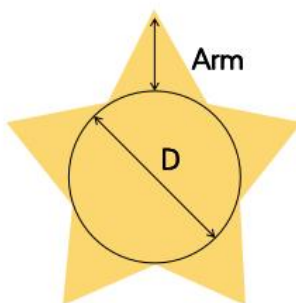


## Gold Nanostars-CTAB PRODUCT DATA SHEET

### Gold Nanostars-CTAB

#### Description

Gold Nanostars-CTAB is a type of gold nanomaterial surface modified with cetyltrimethylammonium bromide (CTAB), which exhibits excellent physical and chemical properties and promising application prospects. CTAB is a cationic surfactant that effectively enhances the dispersibility and stability of gold nanoparticles by binding with them. Gold Nanostars-CTAB has a unique surface plasmon resonance effect, and it can generate significant absorption and scattering at specific wavelengths of light, and is widely used in fields such as photothermal therapy, photothermal imaging, and biosensing. In biomedical applications, Gold Nanostars-CTAB has shown great potential in drug delivery, gene delivery, and biological imaging. By coupling drug molecules or fluorescent markers with Gold Nanostars, precise drug delivery and monitoring can be achieved. The excellent chemical stability and biocompatibility of Gold Nanostars-CTAB make them an ideal material for biosensors for detecting biomarkers and toxic substances.



Abvigen Inc can provide high-quality Gold Nanostars-CTAB in multiple specifications, with uniform particle size, good dispersion, and high inter batch repeatability. It can meet the personalized material needs of various customers for research and development, testing, production, and consumption. For custom sizes, formulations or bulk quantities please contact our customer service department.

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### **Characteristics**

Optical density: 1 OD

Size: 5 ml

SPR: 650 nm-1064 nm

Surface: CTAB

Shape: Star shape

Composition: Gold Nanostars

Buffer: DI Water

Form: Suspension

Store: Storage at 2 - 8 °C

Shelf Life: 6 months

### **Storage**

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

### **Advantage**

Uniform particle size

High specific surface area

Easy to surface functionalize

Good dispersibility

Good chemical stability

Unique optical properties

### **Applications**

Biosensor materials

Biological immune testing

Protein labeling

Dark field optical imaging

Fluorescence enhancement

Surface enhanced Raman substrate



## Ordering Information

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