



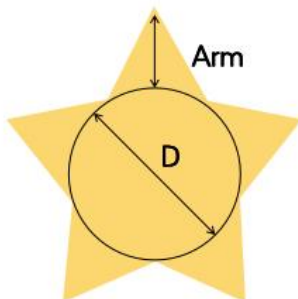
## Gold Nanostars

### PRODUCT DATA SHEET

## Gold Nanostars

### Description

Gold Nanostars is a type of nanomaterial composed of gold atoms, which has good chemical stability and biocompatibility. The material has a star shaped structure, and its unique structure endows Gold Nanostars with significant optical properties. At the sharp corners of Gold Nanostars, the electric field strength significantly increases. This can effectively amplify local electromagnetic fields, thereby improving detection sensitivity. This makes Gold Nanostars have broad application potential in fields such as biosensing and surface plasmon resonance enhanced spectroscopy. Gold Nanostars can absorb near-infrared light, generate local high temperatures, and are applied in photothermal therapy. In addition, Gold Nanostars also have high specific surface area and stability, and exhibit strong performance in catalytic reactions. This material has demonstrated enormous potential in multiple fields such as nanotechnology, biomedical research, and environmental protection.



Abvigen Inc can provide high-quality Gold Nanostars 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.

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



### **Characteristics**

Optical density: 1 OD

Size: 5 ml

SPR: 650 nm-1064 nm

Surface: Plain

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

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

Phone: +1 929-202-3014

Email: [info@abvigenus.com](mailto:info@abvigenus.com)