

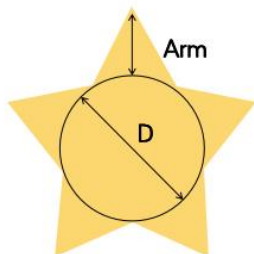


Gold Nanostars-SDS PRODUCT DATA SHEET

Gold Nanostars-SDS

Description

Gold Nanostars-SDS is a type of nanomaterial prepared through surface modification technology, which combines the excellent properties of gold nanostars with the functionality of sodium dodecyl sulfate (SDS) surfactant. Gold nanostars have a unique star shaped polyhedral structure. SDS molecules bind to the surface of Gold nanostars through hydrophobic interactions, forming a negatively charged protective film that enhances the hydrophilicity and stability of the material, making it easy to interact with biomolecules. It can be applied in highly sensitive biosensors and catalytic reactions. SDS modification not only improves the dispersibility of Gold Nanostars, effectively preventing their aggregation, but also regulates their optical properties, especially the redshift phenomenon in UV visible spectra, making them more flexible in optical applications. In addition, Gold Nanostars-SDS has significant advantages in the biomedical field due to its good biocompatibility and high biodegradability, making it suitable for applications in biological imaging, drug delivery, and photothermal therapy.



Abvigen Inc can provide high-quality Gold Nanostars-SDS 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 **Phone:** +1 929-202-3014 **Email:** info@abvigenus.com



Characteristics

Optical density: 1 OD

Size: 5 ml

SPR: 650 nm-1064 nm

Surface: SDS

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

Phone: +1 929-202-3014

Email: info@abvigenus.com