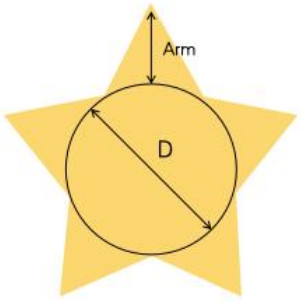
Gold Nanostars-CIT
PRODUCT DATA SHEET

Gold Nanostars-CIT

Description

Gold Nanostars-CIT is a special nanomaterial obtained by modifying Gold Nanostars with citric acid molecules. Gold Nanostars are gold nanoparticles with a star shaped structure. It can generate strong electric field amplification effect at its sharp corners, with high surface reactivity and excellent optical properties. Citric acid, as a surfactant, binds to the surface of gold nanoparticles through its carboxyl group to prevent particle aggregation and improve its stability in solution. Gold Nanostars-CIT have broad application potential and significant value in biomedical fields such as drug delivery, immune detection, and biomarkers due to their excellent biocompatibility and enhanced stability. In addition, citric acid modification can also alter the optical and electrical properties of gold nanostars, enhance their surface plasmon resonance effect, and is widely used in fields such as optical imaging, surface enhanced Raman spectroscopy (SERS), and photothermal therapy.



Abvigen Inc can provide high-quality Gold Nanostars-CIT 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: Citrate

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

Drug carrier

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Ordering Information

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