

Gold Nanoplates-CIT

Description

Gold Nanoplates-CIT is a two-dimensional nanomaterial in which Gold Nanoplates are surface functionalized with citric acid. Gold Nanoplates have a large specific surface area and unique optical and electrical properties, exhibiting excellent performance in catalysis, sensing, biomedical and other fields. The hydrophilicity and surface negative charge of citric acid enhance the stability and dispersibility of Gold Nanoplates, while improving their hydrophilicity and biocompatibility. Gold Nanoplates-CIT surface is rich in carboxyl groups, which can react with various biomolecules such as DNA, antibodies.This make it important for applications in biosensing, targeted drug delivery, and bioimaging. In addition, Gold Nanoplates-CIT has demonstrated excellent catalytic performance in the field of catalysis and can be used for chemical reactions such as environmental protection and energy conversion.

Abvigen Inc can provide high-quality Gold Nanoplates-CIT in various specifications. This product has uniform particle size and good electrochemical performance, which can meet the personalized material needs of various customers in research and development, testing, production, and consumption.

For custom sizes, formulations or bulk quantities please contact our customer service department. Website: <u>www.abvigen.com</u> Phone: +1 929-202-3014 Email: <u>info@abvigenus.com</u>



Characteristics

Optical Density: OD=1 Size: 5 ml Surface: Citrate Composition: Gold Nanoplates Plate Thickness : 10 nm - 100 nm Buffer: DI Water Form: Suspension Store: Storage at 2 - 8 °C

Storage

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

For 1 OD of Gold Nanoplates-CIT

Plate Thickness	Edge Length	Peak SPR Wavelength	NPS/ml	Molarity (pM)	Surface Area (nm2)
10 nm	1000 nm	600 nm	2.59E+08	4.30E-01	1.00E+07
50 nm	1000 nm	650 nm	5.18E+07	8.60E-02	5.00E+07
100 nm	1000 nm	700 nm	2.59E+07	4.30E-02	1.00E+08

Advantage

Good catalytic activity

Good biocompatibility

Good chemical stability

Easy to surface modify and functionalize

Good conductivity

Local surface plasmon resonance



Applications Optical sensors

Biosensors

Optoelectronic equipment

Electrochemical catalysis

Ordering Information

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