



Gold Nanoplates-COOH PRODUCT DATA SHEET

Gold Nanoplates-COOH

Description

Gold Nanoplates-COOH is a type of gold nanomaterial obtained by surface modification with carboxylic acids. By introducing carboxyl groups on the surface of Gold Nanoplates, their water solubility, stability, and biocompatibility can be significantly improved. Carboxylic acid modification not only enhances the dispersibility of Gold Nanoplates in vivo, but also provides abundant reaction sites for further functional modification. By covalently binding with other molecules or nanomaterials, carboxylic acid groups can be used for applications such as drug delivery, sensor development, and molecular recognition. Gold Nanoplates-COOH can serve as a carrier to target specific cells or diseased tissues, accurately release drugs, thereby improving therapeutic efficacy and reducing side effects. In addition, Gold Nanoplates-COOH can also form nanocomposites with specific functions by binding with antibodies, nucleic acids, or other biomolecules, which can be applied in fields such as biological imaging and diagnosis.

Abvigen Inc can provide high-quality Gold Nanoplates-COOH 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: www.abvigen.com **Phone:** +1 929-202-3014 **Email:** info@abvigenus.com



Characteristics

Optical Density: OD=1

Size: 5 ml

Surface: Carboxylic Acid

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-COOH

Plate Thickness	Edge Length	Peak SPR Wavelength	NPS/ml	Molarity (pM)	Surface Area (nm ²)
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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