



Gold Nanoplates-PAA PRODUCT DATA SHEET

Gold Nanoplates-PAA

Description

Gold Nanoplates PAA is a kind of functional nano material obtained by Gold Nanoplates surface modification with polyacrylic acid (PAA). PAA molecules modify the surface of Gold Nanoplates by adsorption or covalent binding, giving them better dispersion stability and reducing the aggregation of Gold Nanoplates in solution. PAA also has good biocompatibility, which can improve the application potential of Gold Nanoplates in the biomedical field, especially in the fields of drug delivery and biosensors. The carboxyl functional groups contained in PAA can be further used to introduce other functions, such as the modification of drug carriers, to achieve the goal of targeted drug delivery. Due to the high solubility of PAA, the solubility of Gold Nanoplates PAA in aqueous solution has also been improved, enhancing its transfer and application effect in organisms.

Abvigen Inc can provide high-quality Gold Nanoplates-PAA 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: Polyacrylic 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-PAA

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

Website: www.abvigen.com

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