

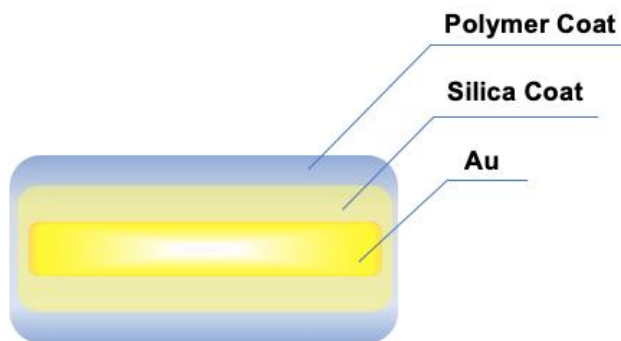


Plain Silica Coated Gold Nanorods PRODUCT DATA SHEET

Plain Silica Coated Gold Nanorods

Description

Silica Coated Gold Nanorods are a novel type of nanomaterial. This material is centered around Gold Nanorods and coated with a silicon dioxide layer on the surface. It combines the advantages of both silicon dioxide and Gold Nanorods, making it an ideal nanomaterial. The silica coating provides a chemically inert protection that reduces the reaction between gold nanorods and the external environment, enabling Gold Nanorods to resist the influence of environmental conditions. The silica coating increases the surface area of antibodies or other targeted parts coupled with Silica Coated Gold Nanorods, making it easier to load drugs, dye molecules, or other imaging agents through physical adsorption or covalent attachment. The Silicon dioxide coating also limits the compactness of Gold Nanorods at high concentrations, marginalizes the effects of plasma coupling, and improves the dispersibility of Silicon Coated Gold Nanorods in solution. Silicon dioxide coating can also significantly improve imaging contrast. Silica Coated Gold Nanorods are widely used in biological imaging, electrochemical sensors, nanoelectronic devices, drug carriers, two-photon imaging, biomolecule probes, and other fields.



Abvigen Inc can provide Plain Silica Coated Gold Nanorods in various particle sizes. Plain Silica Coated Gold Nanorods have uniform particle size and excellent surface adsorption performance, which can meet various personalized material needs such as customer research and development, testing, and production 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

OD: 50

Size: 1 ml or others

Surface: Plain

Composition: Silica Coated Gold Nanorods

Buffer: Supplied in DI water

Store: Storage at 2 - 8 °C

Storage

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

Specification Table of Silica Coated Gold Nanorods

Cat No	DIAM	SPR	Silica Thickness	Cat No	DIAM	SPR	Silica Thickness
ASGN-10-600-3	10 nm	600 nm	3 nm	ASGN-25-750-10	25 nm	750 nm	10 nm
ASGN-10-650-3	10 nm	650 nm	3 nm	ASGN-25-780-10	25 nm	780 nm	10 nm
ASGN-10-700-3	10 nm	700 nm	3 nm	ASGN-25-808-10	25 nm	808 nm	10 nm
ASGN-10-750-3	10 nm	750 nm	3 nm	ASGN-25-850-10	25 nm	850 nm	10 nm
ASGN-10-780-3	10 nm	780 nm	3 nm	ASGN-25-980-10	25 nm	980 nm	10 nm
ASGN-10-808-3	10 nm	808 nm	3 nm	ASGN-40-550-10	40 nm	550 nm	10 nm
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ASGN-10-980-3	10 nm	980 nm	3 nm	ASGN-40-700-10	40 nm	700 nm	10 nm
ASGN-10-1064-3	10 nm	1064 nm	3 nm	ASGN-40-750-10	40 nm	750 nm	10 nm
ASGN-10-1200-3	10 nm	1200 nm	3 nm	ASGN-40-780-10	40 nm	780 nm	10 nm
ASGN-10-1400-3	10 nm	1400 nm	3 nm	ASGN-40-808-10	40 nm	808 nm	10 nm
ASGN-25-550-3	25 nm	550 nm	3 nm	ASGN-40-850-10	40 nm	850 nm	10 nm
ASGN-25-600-3	25 nm	600 nm	3 nm	ASGN-50-600-10	50 nm	600 nm	10 nm
ASGN-25-650-3	25 nm	650 nm	3 nm	ASGN-50-700-10	50 nm	700 nm	10 nm
ASGN-25-700-3	25 nm	700 nm	3 nm	ASGN-50-800-10	50 nm	800 nm	10 nm
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Advantage

High imaging contrast
Good thermal stability
Good chemical stability
Good dispersibility
Uniform particle size
Stable optical properties

Applications

Biological imaging
Electrochemical sensor
Nano electronic devices
Drug carrier
Two-photon imaging
Biomolecular probe
Catalyzer
Surface enhanced Raman spectroscopy

Ordering Information

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