



## Gold Nanotriangles-Citrate PRODUCT DATA SHEET

### Gold Nanotriangles-Citrate

#### Description

The gold nanotriangles are pentahedral sheet-like gold triangle composed of gold atoms, which have flat surface and sharp edges. This material has precise dimensions, high monodispersity, easy surface functionalization, and high electromagnetic enhancement of SERS and other Raman spectra. Citrate surface modification can effectively improve the stability and dispersibility of Gold Nanotriangles, preventing cluster formation. It can also significantly improve the catalytic activity and selectivity of its Gold Nanotriangles surface. Gold nanotriangles are widely used in fields such as materials science, nanotechnology, optical sensing, catalytic reactions, and biomedical research.



Abvigen Inc can provide high-quality Gold Nanotriangles-Citrate with various particle sizes. Gold Nanotriangles-Citrate have uniform particle sizes and good dispersion, 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](http://www.abvigen.com) **Phone:** +1 929-202-3014 **Email:** [info@abvigenus.com](mailto:info@abvigenus.com)



## Characteristics

OD: 1

Size: 5 ml or others

Surface: Citrate

Shape: Triangle piece

Composition: Gold Nanotriangles

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 Gold Nanotriangles-Citrate

Cat No	Edge (nm)	Thickness (nm)	Peak SPR Wavelength (nm)	NPS/ml	Molarity (pM)	Moles	Molar Ext. (M-1cm-1)	Surface Area (nm <sup>2</sup> )
BGNT-575	50	30	575	7.98E+10	1.30E+02	1.33E-13	7.52E+09	6665
BGNT-600	90	35	600	2.11E+10	3.50E+01	3.52E-14	2.84E+10	16465
BGNT-625	115	40	625	1.13E+10	1.90E+01	1.89E-14	5.30E+10	25253
BGNT-650	125	45	650	8.51E+09	1.40E+01	1.42E-14	7.05E+10	30406
BGNT-700	150	50	700	5.32E+09	8.90E+00	8.86E-15	1.13E+11	41985
BGNT-780	200	55	780	2.72E+09	4.50E+00	4.53E-15	2.21E+11	67640

## Advantage

High specific surface area

High load capacity

Surface easy functionalization

Good dispersibility

Good chemical stability

## Applications

Biological immune testing



Protein labeling

Drug carrier

Dark field optical imaging

Fluorescence enhancement

Surface enhanced Raman substrate

### **Ordering Information**

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